# **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 075773874

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

075773858

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

075769526



# **Material Safety Data Sheet**

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# **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: 30601 POLYETHER ADHESIVE - 17 ML BOTTLE (NA)
 MANUFACTURER: 3M
 DIVISION: 3M ESPE Dental Products

ADDRESS: 3M Center St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

**Issue Date:** 03/02/11 **Supercedes Date:** 04/09/10

**Document Group:** 16-4015-0

#### **Product Use:**

Intended Use:Dental ProductLimitations on Use:For use only by dental professionals.Specific Use:Used in impressioning systems.

# **SECTION 2: INGREDIENTS**

Ingredient	<u>C.A.S. No.</u>	<u>% by Wt</u>
ETHYL ACETATE	141-78-6	25 - 50
HEPTANE	142-82-5	25 - 35
ACETONE	67-64-1	5 - 15
METHYLCYCLOHEXANE	108-87-2	5 - 10
FORMALDEHYDE, POLYMER WITH 1,3-BENZENEDIOL AND 4-(1,1-	59633-97-5	0 - 5
DIMETHYLETHYL)PHENOL		
POLYCHLOROPRENE	9010-98-4	0 - 5
FORMALDEHYDE, POLYMER WITH 1,3-BENZENEDIOL AND 4-(1,1- DIMETHYLETHYL)PHENOL	59633-97-5	0 - 5

# **SECTION 3: HAZARDS IDENTIFICATION**

### **3.1 EMERGENCY OVERVIEW**

Specific Physical Form: Liquid Odor, Color, Grade: Blue in color, characteristic solvent odor. General Physical Form: Liquid

**Immediate health, physical, and environmental hazards:** Flammable liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back. May cause target organ effects. This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

# 3.2 POTENTIAL HEALTH EFFECTS

#### **Eye Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### **Skin Contact:**

Moderate Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

#### Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May be absorbed following inhalation and cause target organ effects.

#### **Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May be absorbed following ingestion and cause target organ effects.

#### **Target Organ Effects:**

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

# **SECTION 4: FIRST AID MEASURES**

### 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

**Skin Contact:** Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.

**If Swallowed:** Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

# **SECTION 5: FIRE FIGHTING MEASURES**

# 5.1 FLAMMABLE PROPERTIES

Autoignition temperature Flash Point Flammable Limits(LEL) Flammable Limits(UEL)

No Data Available 30 °F [Test Method: Closed Cup] No Data Available No Data Available

### 5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

# 5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

**Unusual Fire and Explosion Hazards:** Flammable liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard.

#### **6.2.** Environmental precautions

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

#### **Clean-up methods**

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill. Contain spill. Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR - AFFF type foam is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with detergent and water. Seal the container.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

# **SECTION 7: HANDLING AND STORAGE**

### 7.1 HANDLING

Avoid eye contact. Contents may be under pressure, open carefully. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Avoid skin contact.

### 7.2 STORAGE

Store away from heat. Store out of direct sunlight. Keep container in well-ventilated area. Keep container tightly closed.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

Use in an enclosed process area is recommended. Use in a well-ventilated area. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapor, or spray. If ventilation is not adequate, use respiratory protection equipment.

# 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### 8.2.1 Eye/Face Protection

The following eye protection(s) are recommended: Safety Glasses with side shields

#### 8.2.2 Skin Protection

Avoid skin contact.

#### 8.2.3 Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

#### 8.2.4 Prevention of Swallowing

Not applicable. Do not ingest.

### **8.3 EXPOSURE GUIDELINES**

Ingredient	<u>Authority</u>	<b>Type</b>	<u>Limit</u>	Additional Information
ACETONE	ACGIH	TWA	500 ppm	
ACETONE	ACGIH	STEL	750 ppm	
ACETONE	OSHA	TWA	2400 mg/m3	
ETHYL ACETATE	ACGIH	TWA	400 ppm	
ETHYL ACETATE	OSHA	TWA	1400 mg/m3	
HEPTANE	OSHA	TWA	2000 mg/m3	
Heptane, all isomers	ACGIH	TWA	400 ppm	
Heptane, all isomers	ACGIH	STEL	500 ppm	
METHYLCYCLOHEXANE	ACGIH	TWA	400 ppm	

METHYLCYCLOHEXANE

OSHA

TWA

2000 mg/m3

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline

OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Specific Physical Form: Odor, Color, Grade: General Physical Form: Autoignition temperature Flash Point Flammable Limits(LEL) Flammable Limits(UEL) Boiling Point Density Vapor Density

**Vapor Pressure** 

Specific Gravity pH Melting point

Solubility in Water Evaporation rate Volatile Organic Compounds Kow - Oct/Water partition coef Percent volatile VOC Less H2O & Exempt Solvents Viscosity Liquid Blue in color, characteristic solvent odor. Liquid *No Data Available* 30 °F [*Test Method:* Closed Cup] *No Data Available No Data Available* 133 °F *No Data Available* 2 - 4 [*Ref Std:* AIR=1]

180 mmHg

0.8 - 0.9 [*Ref Std:* WATER=1] *No Data Available No Data Available* 

Moderate Approximately 1 [*Ref Std:* BUOAC=1] *No Data Available No Data Available No Data Available No Data Available* 40000 centipoise

# SECTION 10: STABILITY AND REACTIVITY

#### Stability: Stable.

Materials and Conditions to Avoid: 10.1 Conditions to avoid Heat Sparks and/or flames

**10.2 Materials to avoid** None known

Hazardous Polymerization: Hazardous polymerization will not occur.

### Hazardous Decomposition or By-Products

<u>Substance</u> Carbon monoxide Carbon dioxide Irritant Vapors or Gases <u>Condition</u> During Combustion During Combustion During Combustion

# SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

# **SECTION 12: ECOLOGICAL INFORMATION**

# ECOTOXICOLOGICAL INFORMATION

Not determined.

# **CHEMICAL FATE INFORMATION**

Not determined.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

#### EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

Since regulations vary, consult applicable regulations or authorities before disposal.

# SECTION 14:TRANSPORT INFORMATION

#### **ID** Number(s):

70-2011-0648-4, 70-2011-0895-1, 70-2011-0997-5

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

# **SECTION 15: REGULATORY INFORMATION**

### **US FEDERAL REGULATIONS**

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

#### This material contains a chemical which requires export notification under TSCA Section 12[b]:

Ingredient (Category if applicable)	C.A.S. No	Regulation	<u>Status</u>
HEPTANE (Heptane)	142-82-5	Toxic Substances Control Act (TSCA) 4 Test	Applicable
		Rule Chemicals	
HEPTANE	142-82-5	Toxic Substances Control Act (TSCA) 4 Test	Applicable
		Rule Chemicals	

### STATE REGULATIONS

Contact 3M for more information.

### **CHEMICAL INVENTORIES**

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

#### **INTERNATIONAL REGULATIONS**

Contact 3M for more information.

### This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# **SECTION 16: OTHER INFORMATION**

#### NFPA Hazard Classification

Health: 1 Flammability: 3 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

**Revision Changes:** Copyright was modified. Section 3: Potential effects from inhalation information was modified. Section 3: Potential effects from ingestion information was modified. Section 14: Transportation legal text was modified. Section 9: Boiling point information was modified. Section 5: Flammable limits (UE) information was modified. Section 5: Flammable limits (LEL) information was modified. Section 9: Flammable limits (LEL) information was modified. Section 9: Flammable limits (UEL) information was modified. Section 2: Ingredient table was modified. Section 8: Exposure guidelines ingredient information was modified. Section 15: TSCA section 12[b] information was modified. Section 6: Methods for cleaning up information was modified. Section 3: Immediate other hazard(s) was added. Section 6: 6.2. Environmental precautions heading was added. Section 6: 6.1. Personal precautions, protective equipment and emergency procedures heading was added. Section 6: Clean-up methods heading was added. Section 6: Release measures heading was deleted.

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Document Group:	16-5566-1	Version Number:	6.00	
Issue Date:	02/25/16	Supercedes Date:	12/16/14	

# **SECTION 1: Identification**

#### 1.1. Product identifier

IMPREGUM GARANT L DUOSOFT/ IMPREGUM GARANT SOFT LB CATALYST

Product Identification Numbers LE-FSFD-6306-1

#### 1.2. Recommended use and restrictions on use

Recommended use Dental Product, Impression Restrictions on use For use only by dental professionals

1.3. Supplier's details	
MANUFACTURER:	3M
DIVISION:	Oral Care Solutions Division
ADDRESS:	3M Center, St. Paul, MN 55144-1000, USA
Telephone:	1-888-3M HELPS (1-888-364-3577)

**1.4. Emergency telephone number** 1-800-364-3577 or (651) 737-6501 (24 hours)

### **SECTION 2: Hazard identification**

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

**2.1. Hazard classification** Serious Eye Damage/Irritation: Category 2B.

2.2. Label elements Signal word Warning

Symbols Not applicable

### Pictograms

Not applicable

### **Hazard Statements**

Causes eye irritation.

#### **Precautionary Statements**

**Prevention:** 

Wash thoroughly after handling.

#### **Response:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, Continue rinsing. If eye irritation persists: Get medical advice/attention.

# 2.3. Hazards not otherwise classified

None.

# **SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt
POLYMERIC ACETATE	91825-26-2	25 - 35 Trade Secret *
DIATOMACEOUS EARTH	68855-54-9	20 - 30 Trade Secret *
CITRIC ESTER	77-90-7	10 - 20 Trade Secret *
SULFONIUM SALT	72140-65-9	10 - 20 Trade Secret *
DIBENZYL TOLUENE	26898-17-9	1 - 10 Trade Secret *
SILANE TREATEAD SILICA	68909-20-6	I - 10 Trade Secret *
FATTY ACIDS TRIGLYCERIDES	67701-27-3	I - 5 Trade Secret *
POLYETHYLENE-POLYPROPYLENE GLYCOL	9003-11-6	I - 5 Trade Secret *

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### Inhalation:

No need for first aid is anticipated.

#### Skin Contact:

Wash with soap and water. If signs/symptoms develop, get medical attention,

#### Eye Contact:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

#### If Swallowed:

No need for first aid is anticipated.

#### 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

#### **4.3. Indication of any immediate medical attention and special treatment required** Not applicable

### **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

Condition

During Combustion

During Combustion

During Combustion

#### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

#### Hazardous Decomposition or By-Products

Substance Carbon monoxide Carbon dioxide Irritant Vapors or Gases

#### 5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Avoid eye contact. Avoid prolonged or repeated skin contact. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

#### 7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from acids. Store away from strong hases. Store away from oxidizing agents. Store away from amines.

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### **Occupational exposure limits**

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

#### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use in a well-ventilated area.

#### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Safety Glasses with side shields

#### Skin/hand protection

See Section 7.1 for additional information on skin protection.

#### **Respiratory** protection

Respiratory protection is not required.

#### **SECTION 9: Physical and chemical properties** 9.1. Information on basic physical and chemical properties **General Physical Form:** Solid **Specific Physical Form:** Paste Odor, Color, Grade: slightly characteristic odor, red colored pastes Odor threshold No Data Available pН Not Applicable Melting point No Data Available **Boiling Point** Not Applicable Flash point > 93 °C (200 °F) **Flash Point Evaporation** rate Not Applicable Flammability (solid, gas) Not Classified Flammable Limits(LEL) Not Applicable Flammable Limits(UEL) Not Applicable Vapor Pressure No Data Available Vapor Density No Data Available Density 1.1 g/cm3 - 1.2 g/cm3 **Specific Gravity** 1.1 - 1.2 [Ref Std: WATER=1] Solubility in Water Negligible Solubility- non-water No Data Available Partition coefficient: n-octanol/ water No Data Available Autoignition temperature Not Applicable No Data Available **Decomposition temperature** Viscosity No Data Available Molecular weight No Data Available Volatile Organic Compounds Not Applicable Not Applicable Percent volatile Not Applicable **VOC Less H2O & Exempt Solvents**

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

**10.2.** Chemical stability Stable.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

# 10.4. Conditions to avoid

Heat

#### 10.5. Incompatible materials

Amines Strong acids Strong bases Strong oxidizing agents

#### 10.6. Hazardous decomposition products <u>Substance</u> None known.

#### Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

# SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

#### Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

This product may have a characteristic odor; however, no adverse health effects are anticipated.

#### Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

#### Eye Contact:

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or bazy vision.

#### Ingestion:

No known health effects.

### Carcinogenicity:

Ingredient	CAS No.	Class Description	Regulation
SILICA, CRYS AIRRESP	68855-54-9	Grp. 1 Carcinogenic to humans	International Agency for Research on Cancer
SILICA, CRYS AIRRESP	68855-54-9	Known human caremogen	National Toxicology Program Carcinogens

#### **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE > 5,000 mg kg
Overall product	Ingestion		No data available: calculated ATE > 5,000 mg kg
POLYMERIC ACETATE	Dermal	Professio nal judgeme nt	LD50 estimated to be < 5,000 mg kg
POLYMERIC ACETATE	Ingestion	Rat	LD50 - 2,000 mg/kg
DIATOMACEOUS EARTH	Dermai	Professio nal judgeme nt	1.D50 estimated to be $\simeq 5,000$ mg kg
DIATOMACEOUS EARTH	Inhalation- Dust Mist (4 hours)	Rat	1.C50 > 2.7 mg l
DIATOMACEOUS EARTH	Ingestion	Rat	LD50 - 2,000 mg kg
CITRIC ESTER	Dermal	Professio nal judgeme nt	1.D50 estimated to be $\approx 5.000$ mg/kg
CITRIC ESTER	Ingestion	Rat	1.D50 - 25.000 mg.kg
SULFONIUM SALT	Dermal	Professio nal judgeme nt	1.D50 estimated to be 2.000 - 5.000 mg kg
SULFONIUM SALT	Ingestion	Rat	1.D50 - 2.000 mg kg
DIBENZYL TOLUENE	Dermal	Rabbit	LD50 - 2,000 mg kg
DIBENZYL TOLUENE	Ingestion	Rat	LD50 > 10,360 mg kg
SILANE TREATEAD SILICA	Dermal	Rabbit	LD50 - 5,000 mg/kg
SILANE TREATEAD SILICA	Inhalation- Dust-Mist (4 hours)	Rat	LC50 > 0.691 mg/l
SILANE TREATEAD SILICA	Ingestion	Rat	1.1550 - 5.110 mg kg
POLYETHYLENE-POLYPROPYLENE GLYCOL	Dermal	Professio nal judgeme nt	1.D50 estimated to be $\geq$ 5,000 mg kg
POLYETHYLENE-POLYPROPYLENE GLYCOL	Ingestion	Rai	LD50_5,700 mg kg
FATTY ACIDS TRIGLYCERIDES	Dermal	Rabbut	1.1150 - 2.000 mg kg
FATTY ACIDS TRIGLYCERIDES	Ingestion	Rat	1.1550 - 2,000 mg kg

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Name	Species	Value
DIATOMACEOUS EARTH	ln vitro	No significant irritation
SULFONIUM SALT	data Rabbit	Mild irritant
SILANE TREATEAD SILICA	Rabbit	No significant irritation

# Serious Eye Damage/Irritation

Name	

Species Value

DIATOMACEOUS EARTH	Rabbit	Mild irritant
SULFONIUM SALT	similar	Moderate irritant
	health	
	hazards	
SILANE TREATEAD SILICA	Rabbit	No significant irritation

#### Skin Sensitization

Name	Species	Value
DIATOMACEOUS EARTH	Mouse	Not sensitizing
SILANE TREATEAD SILICA	Human	Not sensitizing
	and	
	anımal	

#### **Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

#### Germ Cell Mutagenicity

Name	Route	Value
POLYMERIC ACETATE	In Vitro	Not mutagenic
DIATOMACEOUS EARTH	In Vitro	Some positive data exist, but the data are not sufficient for classification
SULFONIUM SALT	In Vitro	Not mutagenic
SILANE TREATUAD SILICA	In Vitro	Not inutagenic

#### Carcinogenicity

Name	Route	Species	Value
DIATOMACEOUS EARTH	Inhalation	Human	Carcinogenic
		and	
		animal	
SILANE TREATEAD SILICA	Not	Mouse	Some positive data exist, but the data are not
	Specified		sufficient for classification

#### **Reproductive Toxicity**

#### **Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test Result	Exposure Duration
SILANE TREATEAD SILICA	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg kg dav	l generation
SILANE TREATEAD SILICA	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497 mg kg day	I generation
SILANE TREATEAD SILICA	Ingestion	Not toxic to development	Rat	NOAEL 1,350 mg kg day	during organogenesi s

#### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
SULFONIUM SALT	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Rat	LOAEL 2,000 mg kg	

#### Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
DIATOMACEOUS EARTH	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
DIATOMACEOUS EARTH	Ingestion	hematopoietie system   eyes ;	All data are negative	Rat	NOAEL 3.738	90 days

		kidney and or bladder			mg kg day	
SILANE TREATEAD SILICA	Inhalation	respiratory system silicosis	All data are negative	Human	NOAEL Not available	occupational exposure

#### Aspiration Hazard

For the component/components, either no data are currently available or the data are not sufficient for elassification.

# Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

# **SECTION 12: Ecological information**

#### Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

#### **Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

### **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate uncured product in a permitted waste incineration facility. Dispose of completely cured (or polymerized) material in a permitted industrial waste facility.

#### EPA Hazardous Waste Number (RCRA): Not regulated

# **SECTION 14: Transport Information**

For Transport Information, please visit http://3M.com/Transportinto or call 1-800-364-3577 or 651-737-6501.

### SECTION 15: Regulatory information

#### **15.1. US Federal Regulations**

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

#### 15.2. State Regulations

Contact 3M for more information.

#### **California Proposition 65**

#### Ingredient

SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE) C.A.S. No. None Classification Carcinogen

WARNING: This product contains a chemical known to the State of California to cause cancer.

#### **15.3. Chemical Inventories**

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

#### **15.4. International Regulations**

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### **SECTION 16: Other information**

#### NFPA Hazard Classification

Health: 1 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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# **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:**3MTM ESPETM ImpregumTM PentaTM HB Soft Base Paste**MANUFACTURER:**3M**DIVISION:**3M ESPE Dental Products

ADDRESS: 3M Center, St. Paul, MN 55144-1000

#### EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

 Issue Date:
 12/08/11

 Supercedes Date:
 08/30/10

Document Group: 16-2740-5

#### **Product Use:**

Intended Use:DentalLimitations on Use:For useSpecific Use:Impress

Dental Product For use only by dental professionals Impressions

# **SECTION 2: INGREDIENTS**

Ingredient	<u>C.A.S. No.</u>	<u>% by Wt</u>
POLYETHER	110531-92-5	50 - 60
FATTY ACID TRIGLYCERIDES	67701-27-3	15 - 25
POLYMERIC ACETATE	91825-26-2	10 - 20
DIBENZYL TOLUENE	26898-17-9	5 - 10
DIATOMACEOUS EARTH	68855-54-9	1 - 5
CRISTOBALITE	14464-46-1	1 - 5
1-DODECYLIMIDAZOLE	4303-67-7	< 1

# **SECTION 3: HAZARDS IDENTIFICATION**

# **3.1 EMERGENCY OVERVIEW**

Specific Physical Form: Paste
Odor, Color, Grade: Different colors, characteristic odor
General Physical Form: Solid
Immediate health, physical, and environmental hazards: May cause allergic skin reaction.

# **3.2 POTENTIAL HEALTH EFFECTS**

#### Eye Contact:

Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

#### **Skin Contact:**

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching.

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### Inhalation:

This product may have a characteristic odor; however, no adverse health effects are anticipated.

#### Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

#### **Target Organ Effects:**

This product contains Cristobalite (CASRN 14464-46-1). Cancer of the lungs and silicosis has been associated with cristobalite. No exposure to cristobalite is anticipated during normal intended handling of the paste or cured material and therefore, the health effects associated with cristobalite are not expected during the foreseeable use of this product.

# **SECTION 4: FIRST AID MEASURES**

# 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

**Eye Contact:** Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

**Skin Contact:** Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

**Inhalation:** No need for first aid is anticipated.

**If Swallowed:** Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

# **SECTION 5: FIRE FIGHTING MEASURES**

### 5.1 FLAMMABLE PROPERTIES

Autoignition temperature Flash Point Flammable Limits(LEL) Flammable Limits(UEL) No Data Available No flash point Not Applicable Not Applicable

### 5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

# **5.3 PROTECTION OF FIRE FIGHTERS**

**Special Fire Fighting Procedures:** Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

### **Unusual Fire and Explosion Hazards:** Not applicable.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air.

#### 6.2. Environmental precautions

Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

#### **Clean-up methods**

Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill. Collect as much of the spilled material as possible. Clean up residue.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

# **SECTION 7: HANDLING AND STORAGE**

### 7.1 HANDLING

Avoid eye contact. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Avoid skin contact. Wash hands after handling and before eating. Avoid eye contact with dust or airborne particles.

### 7.2 STORAGE

Store away from heat. Store out of direct sunlight. Store away from areas where product may come into contact with food or pharmaceuticals.

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1 ENGINEERING CONTROLS

Not applicable.

# 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### 8.2.1 Eye/Face Protection

Avoid eye contact. The following eye protection(s) are recommended: Safety Glasses with side shields

#### 8.2.2 Skin Protection

Avoid skin contact. Avoid prolonged or repeated skin contact. Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

#### 8.2.3 Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

#### 8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Not applicable. Do not ingest.

# 8.3 EXPOSURE GUIDELINES

Ingredient	<u>Authority</u>	<b>Type</b>	<u>Limit</u>	Additional Information
CRISTOBALITE	ACGIH	TWA, respirable	0.025 mg/m3	
		fraction		
CRISTOBALITE	OSHA	TWA concentration,	0.05 mg/m3	
		respirable		
CRISTOBALITE	OSHA	TWA concentration,	0.15 mg/m3	
		as total dust		
SILICA, AMORPHOUS	OSHA	TWA concentration	0.8 mg/m3	
SILICA, AMORPHOUS	OSHA	TWA	20 millions of	
			particles/cu. ft.	

#### SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists CMRG: Chemical Manufacturer Recommended Guideline OSHA: Occupational Safety and Health Administration AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Specific Physical Form: Odor, Color, Grade: General Physical Form: Autoignition temperature Flash Point Flammable Limits(LEL) Flammable Limits(UEL) Boiling Point

Vapor Density

Vapor Pressure

Specific Gravity pH Melting point

Solubility in Water Evaporation rate Volatile Organic Compounds Kow - Oct/Water partition coef Percent volatile VOC Less H2O & Exempt Solvents Viscosity Paste Different colors, characteristic odor Solid *No Data Available* No flash point *Not Applicable Not Applicable Not Applicable* 

Not Applicable

Not Applicable

1.0 - 1.2 [*Ref Std:* WATER=1] *No Data Available No Data Available* 

Nil Not Applicable Not Applicable No Data Available Not Applicable Not Applicable 40000 - 150000 centipoise

# **SECTION 10: STABILITY AND REACTIVITY**

Stability: Stable.

Materials and Conditions to Avoid: 10.1 Conditions to avoid Heat

**10.2 Materials to avoid** None known

Hazardous Polymerization: Hazardous polymerization will not occur.

### Hazardous Decomposition or By-Products

Substance Carbon monoxide Carbon dioxide Irritant Vapors or Gases <u>Condition</u> During Combustion During Combustion During Combustion

# **SECTION 11: TOXICOLOGICAL INFORMATION**

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

# **SECTION 12: ECOLOGICAL INFORMATION**

# ECOTOXICOLOGICAL INFORMATION

Not determined.

# CHEMICAL FATE INFORMATION

Not determined.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** Dispose of waste product in a sanitary landfill. As a disposal alternative, incinerate in an industrial or commercial facility in the presence of a combustible material. As a disposal alternative, incinerate in an industrial or commercial facility.

#### EPA Hazardous Waste Number (RCRA): Not regulated

Since regulations vary, consult applicable regulations or authorities before disposal.

# **SECTION 14:TRANSPORT INFORMATION**

BA-ESPE-3173-1, LE-FSFD-3173-1

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

# **SECTION 15: REGULATORY INFORMATION**

### **US FEDERAL REGULATIONS**

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

### **STATE REGULATIONS**

Contact 3M for more information.

### **CHEMICAL INVENTORIES**

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

### **INTERNATIONAL REGULATIONS**

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# **SECTION 16: OTHER INFORMATION**

#### NFPA Hazard Classification

Health: 2 Flammability: 1 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

**Revision Changes:** 

- Section 1: Product name was modified.
- Section 1: Product use information was modified.
- Section 16: Disclaimer (second paragraph) was modified.
- Section 7: Handling information was modified.
- Section 7: Storage information was modified.
- Section 8: Skin protection phrase was modified.
- Section 8: Prevention of swallowing information was modified.
- Section 10: Hazardous decomposition or by-products table was modified.
- Page Heading: Product name was modified.
- Section 9: Vapor density value was modified.
- Section 9: Vapor pressure value was modified.
- Section 9: Boiling point information was modified.
- Section 5: Flammable limits (UE) information was modified.
- Section 5: Flammable limits (LEL) information was modified.
- Section 5: Autoignition temperature information was modified.
- Section 5: Flash point information was modified.
- Section 9: Property description for optional properties was modified.

Section 9: Specific gravity information was modified. Section 9: pH information was modified. Section 9: Melting point information was modified. Section 9: Solubility in water text was modified. Section 9: Flash point information was modified. Section 9: Flammable limits (LEL) information was modified. Section 9: Flammable limits (UEL) information was modified. Section 9: Autoignition temperature information was modified. Section 2: Ingredient table was modified. Section 6: 6.2. Environmental precautions heading was modified. Section 6: 6.1. Personal precautions, protective equipment and emergency procedures heading was modified. Section 3: Other potential health effects heading was added. Section 3: Other potential health effects was added. Section 8: Exposure guidelines ingredient information was added. Section 8: Exposure guidelines data source legend was added. Section 16: Web address was added. Section 8: Hand protection information was added. Section 1: Address was added. Copyright was added. Company logo was added. Telephone header was added. Company Telephone was added. Section 1: Emergency phone information was added. Section 1: Emergency phone information was deleted. Company Logo was deleted. Copyright was deleted. Section 16: Web address heading was deleted. Section 1: Address line 1 was deleted. Section 1: Address line 2 was deleted. Section 8: Exposure guidelines information - none - was deleted.

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Document Group:	16-2742-1	Version Number:	9.00
Issue Date:	06/19/15	Supercedes Date:	10/09/14

# **SECTION 1: Identification**

#### 1.1. Product identifier

 $3M^{{\scriptscriptstyle\rm TM}}\,ESPE^{{\scriptscriptstyle\rm TM}}\,Impregum^{{\scriptscriptstyle\rm TM}}\,Penta^{{\scriptscriptstyle\rm TM}}\,Soft\ Catalyst$ 

**Product Identification Numbers** CA-ESPE-3173-1, LE-FSFD-3173-8

#### 1.2. Recommended use and restrictions on use

### **Recommended use**

Dental Product, Impressions **Restrictions on use** For use only by dental professionals

1.3. Supplier's details	
<b>MANUFACTURER:</b>	3M
<b>DIVISION:</b>	3M ESPE Dental Products
ADDRESS:	3M Center, St. Paul, MN 55144-1000, USA
Telephone:	1-888-3M HELPS (1-888-364-3577)

**1.4. Emergency telephone number** 1-800-364-3577 or (651) 737-6501 (24 hours)

# **SECTION 2: Hazard identification**

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

#### 2.1. Hazard classification

Serious Eye Damage/Irritation: Category 2B.

2.2. Label elements Signal word Warning

**Symbols** Not applicable

#### Pictograms

Not applicable

#### **Hazard Statements**

Causes eye irritation.

#### **Precautionary Statements**

**Prevention:** Wash thoroughly after handling.

#### **Response:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

# **2.3. Hazards not otherwise classified** None.

# **SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt
CITRIC ESTER	77-90-7	30 - 50 Trade Secret *
SILANE TREATED SILICA	68909-20-6	10 - 30 Trade Secret *
SULFONIUM SALT	72140-65-9	10 - 30 Trade Secret *
DIATOMACEOUS EARTH	68855-54-9	1 - 20 Trade Secret *
POLYETHYLENE-POLYPROPYLENE GLYCOL	9003-11-6	1 - 10 Trade Secret *
CRISTOBALITE	14464-46-1	< 2 Trade Secret *

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### Inhalation:

No need for first aid is anticipated.

#### Skin Contact:

Wash with soap and water. If signs/symptoms develop, get medical attention.

#### Eye Contact:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

### If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

#### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

### **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

#### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

#### Hazardous Decomposition or By-Products

Substance	<b>Condition</b>
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Irritant Vapors or Gases	During Combustion

#### **5.3.** Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### **6.2. Environmental precautions**

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Avoid eye contact. Avoid prolonged or repeated skin contact. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

#### 7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
CRISTOBALITE	14464-46-1	ACGIH	TWA(respirable	A2: Suspected human
			fraction):0.025 mg/m3	carcin.
CRISTOBALITE	14464-46-1	OSHA	TWA concentration(as total	

#### 3M<sup>TM</sup> ESPE<sup>TM</sup> Impregum<sup>TM</sup> Penta<sup>TM</sup> Soft Catalyst 06/19/15

			dust):0.15 mg/m3;TWA concentration(respirable):0.05 mg/m3(1.2 millions of particles/cu. ft.)
SILICA, AMORPHOUS	68855-54-9	OSHA	TWA concentration:0.8 mg/m3;TWA:20 millions of particles/cu. ft.
SILICA, AMORPHOUS	68909-20-6	OSHA	TWA concentration:0.8 mg/m3;TWA:20 millions of particles/cu. ft.

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

#### 8.2. Exposure controls

#### **8.2.1. Engineering controls**

Use in a well-ventilated area.

#### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Safety Glasses with side shields

#### **Skin/hand protection**

See Section 7.1 for additional information on skin protection.

#### **Respiratory protection**

None required.

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

General Physical Form:	Solid
Specific Physical Form:	Paste
Odor, Color, Grade:	Dark red color, slightly acrid odor
Odor threshold	No Data Available
рН	No Data Available
Melting point	No Data Available
Boiling Point	Not Applicable
Flash Point	No flash point
Evaporation rate	Not Applicable
Flammability (solid, gas)	Not Classified
Flammable Limits(LEL)	Not Applicable
Flammable Limits(UEL)	Not Applicable
Vapor Pressure	Not Applicable
Vapor Density	Not Applicable
Specific Gravity	1.1 - 1.4 [ <i>Ref Std:</i> WATER=1]
Solubility in Water	Negligible

Solubility- non-water
Partition coefficient: n-octanol/ water
Autoignition temperature
Decomposition temperature
Viscosity
Volatile Organic Compounds
Percent volatile
VOC Less H2O & Exempt Solvents

No Data Available Not Applicable Not Applicable Not Applicable

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

**10.2. Chemical stability** Stable.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

**10.4. Conditions to avoid** Heat

**10.5. Incompatible materials** Strong acids Strong bases Strong oxidizing agents

10.6. Hazardous decomposition products
<u>Substance</u>

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

# **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

Condition

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure. The information below represents toxicological information associated with the individual components of the uncured product. Once properly mixed and/or cured, the product is safe for its intended use.

**11.1. Information on Toxicological effects** 

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

This product may have a characteristic odor; however, no adverse health effects are anticipated.

#### **Skin Contact:**

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

#### **Eye Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### **Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

#### **Additional Health Effects:**

#### Carcinogenicity:

Exposures needed to cause the following health effect(s) are not expected during normal, intended use: Contains a chemical or chemicals which can cause cancer.

Ingredient	CAS No.	Class Description	Regulation
SILICA, CRYS AIRRESP	14464-46-1	Known human carcinogen	National Toxicology Program Carcinogens
Generic: GLASS FILAMENTS	14464-46-1	Anticipated human carcinogen	National Toxicology Program Carcinogens
CRISTOBALITE	14464-46-1	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer

#### **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### **Acute Toxicity**

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE > 5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE > 5,000 mg/kg
CITRIC ESTER	Dermal	Professio	LD50 estimated to be $> 5,000 \text{ mg/kg}$
		nal	
		judgeme	
		nt	
CITRIC ESTER	Ingestion	Rat	LD50 > 25,000 mg/kg
SILANE TREATED SILICA	Dermal	Rabbit	LD50 > 5,000 mg/kg
SILANE TREATED SILICA	Inhalation-	Rat	LC50 > 0.691 mg/l
	Dust/Mist		
	(4 hours)		
SILANE TREATED SILICA	Ingestion	Rat	LD50 > 5,110 mg/kg
SULFONIUM SALT	Dermal	Professio	LD50 estimated to be 2,000 - 5,000 mg/kg
		nal	
		judgeme	
		nt	
SULFONIUM SALT	Ingestion	Rat	LD50 > 2,000 mg/kg
DIATOMACEOUS EARTH	Dermal	Rabbit	LD50 > 5,000 mg/kg
DIATOMACEOUS EARTH	Inhalation-	Rat	LC50 > 0.691 mg/l
	Dust/Mist		-
	(4 hours)		
DIATOMACEOUS EARTH	Ingestion	Rat	LD50 > 5,110 mg/kg
POLYETHYLENE-POLYPROPYLENE GLYCOL	Dermal	Professio	LD50 estimated to be $> 5,000 \text{ mg/kg}$
		nal	
		judgeme	
		nt	
POLYETHYLENE-POLYPROPYLENE GLYCOL	Ingestion	Rat	LD50 5,700 mg/kg
CRISTOBALITE	Dermal		LD50 estimated to be $> 5,000 \text{ mg/kg}$
CRISTOBALITE	Ingestion		LD50 estimated to be $> 5,000 \text{ mg/kg}$

ATE = acute toxicity estimate

### 3M<sup>TM</sup> ESPE<sup>TM</sup> Impregum<sup>TM</sup> Penta<sup>TM</sup> Soft Catalyst 06/19/15

### **Skin Corrosion/Irritation**

Name	Species	Value
SILANE TREATED SILICA	Rabbit	No significant irritation
SULFONIUM SALT	Rabbit	Mild irritant
DIATOMACEOUS EARTH	Rabbit	No significant irritation
CRISTOBALITE	Professio	No significant irritation
	nal	
	judgeme	
	nt	

#### Serious Eye Damage/Irritation

Name	Species	Value
SILANE TREATED SILICA	Rabbit	No significant irritation
SULFONIUM SALT	similar	Moderate irritant
	health	
	hazards	
DIATOMACEOUS EARTH	Rabbit	No significant irritation

#### **Skin Sensitization**

Name	Species	Value
SILANE TREATED SILICA	Human	Not sensitizing
	and	
	animal	
DIATOMACEOUS EARTH	Human	Not sensitizing
	and	
	animal	

#### **Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

### Germ Cell Mutagenicity

Name	Route	Value
SILANE TREATED SILICA	In Vitro	Not mutagenic
SULFONIUM SALT	In Vitro	Not mutagenic
DIATOMACEOUS EARTH	In Vitro	Not mutagenic
CRISTOBALITE	In Vitro	Some positive data exist, but the data are not
		sufficient for classification
CRISTOBALITE	In vivo	Some positive data exist, but the data are not
		sufficient for classification

### Carcinogenicity

Name	Route	Species	Value
SILANE TREATED SILICA	Not	Mouse	Some positive data exist, but the data are not
	Specified		sufficient for classification
DIATOMACEOUS EARTH	Not	Mouse	Some positive data exist, but the data are not
	Specified		sufficient for classification
CRISTOBALITE	Inhalation	Human	Carcinogenic
		and	
		animal	

#### **Reproductive Toxicity**

### **Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test Result	Exposure Duration
SILANE TREATED SILICA	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
SILANE TREATED SILICA	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
SILANE TREATED SILICA	Ingestion	Not toxic to development	Rat	NOAEL 1,350	during organogenesi

#### 3M<sup>TM</sup> ESPE<sup>TM</sup> Impregum<sup>TM</sup> Penta<sup>TM</sup> Soft Catalyst 06/19/15

				mg/kg/day	S
DIATOMACEOUS EARTH	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509	1 generation
				mg/kg/day	
DIATOMACEOUS EARTH	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497	1 generation
	_			mg/kg/day	-
DIATOMACEOUS EARTH	Ingestion	Not toxic to development	Rat	NOAEL	during
				1,350	organogenesi
				mg/kg/day	s

#### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
SULFONIUM SALT	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Rat	LOAEL 2,000 mg/kg	not applicable

#### Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
SILANE TREATED SILICA	Inhalation	respiratory system   silicosis	All data are negative	Human	NOAEL Not available	occupational exposure
DIATOMACEOUS EARTH	Inhalation	respiratory system   silicosis	All data are negative	Human	NOAEL Not available	occupational exposure
CRISTOBALITE	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure

#### **Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

# Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

# **SECTION 12: Ecological information**

#### **Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

#### **Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

# **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility.

#### EPA Hazardous Waste Number (RCRA): Not regulated

# **SECTION 14: Transport Information**

For Transport Information, please visit <u>http://3M.com/Transportinfo</u> or call 1-800-364-3577 or 651-737-6501.

# **SECTION 15: Regulatory information**

### **15.1. US Federal Regulations**

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

#### **15.2. State Regulations**

Contact 3M for more information.

### **15.3.** Chemical Inventories

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

#### **15.4. International Regulations**

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# **SECTION 16: Other information**

### NFPA Hazard Classification

Health: 1 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Document Group:	16-2742-1	Version Number:	9.00
Issue Date:	06/19/15	Supercedes Date:	10/09/14

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 PRODUCT NAME:
 3M™ ESPE™ IMPREGUM™PENTA™ SOFT QUICK STEP MEDIUM BODY Refill

 MANUFACTURER:
 3M

 DIVISION:
 3M ESPE Dental Products

ADDRESS: 3M Center, St. Paul, MN 55144-1000

### EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 01/02/13 Supercedes Date: Initial Issue

**Document Group:** 31-5474-7

**ID** Number(s):

70-2011-3004-7

This product is a kit or a multipart product which consists of multiple, independently packaged components. An MSDS for each of these components is included. Please do not separate the component MSDSs from this cover page. The document numbers of the MSDSs for components of this product are:

19-2468-7, 19-2469-5

No revision information is available.

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### MATERIAL SAFETY DATA SHEET 3M<sup>TM</sup> ESPE<sup>TM</sup> IMPREGUM<sup>TM</sup>PENTA<sup>TM</sup> SOFT QUICK STEP MEDIUM BODY Refill 01/02/13

have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the MSDS available directly from 3M

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# **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:**3M™ ESPE™ IMPREGUM™ PENTA™ SOFT QUICK STEP MEDIUM BODY BASE**MANUFACTURER:**3M**DIVISION:**3M ESPE Dental Products

ADDRESS: 3M Center, St. Paul, MN 55144-1000

#### EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

 Issue Date:
 01/10/12

 Supercedes Date:
 12/08/11

Document Group: 19-2468-7

#### **Product Use:**

Intended Use: Limitations on Use: Specific Use:

Dental Product For use only by dental professionals Impressions

# **SECTION 2: INGREDIENTS**

Ingredient	<u>C.A.S. No.</u>	<u>% by Wt</u>
POLYETHER	110531-92-5	50 - 60
FATTY ACID TRIGLYCERIDES	67701-27-3	10 - 20
DIATOMACEOUS EARTH	68855-54-9	10 - 20
DIBENZYL TOLUENE	26898-17-9	5 - 15
CRISTOBALITE	14464-46-1	1 - 10
SULFONAMIDE	80-39-7	1 - 5
C.I. PIGMENT WHITE 5	1345-05-7	< 2
1-DODECYLIMIDAZOLE	4303-67-7	< 0.8

# **SECTION 3: HAZARDS IDENTIFICATION**

## 3.1 EMERGENCY OVERVIEW

Specific Physical Form: Paste Odor, Color, Grade: Characteristic odor, blue in color General Physical Form: Solid

**Immediate health, physical, and environmental hazards:** May cause allergic skin reaction. This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

## **3.2 POTENTIAL HEALTH EFFECTS**

#### Eye Contact:

Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

#### **Skin Contact:**

Contact with the skin during product use is not expected to result in significant irritation. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### Inhalation:

This product may have a characteristic odor; however, no adverse health effects are anticipated.

#### **Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

#### **Target Organ Effects:**

This product contains Cristobalite (CASRN 14464-46-1). Cancer of the lungs and silicosis has been associated with cristobalite. No exposure to cristobalite is anticipated during normal intended handling of the paste or cured material and therefore, the health effects associated with cristobalite are not expected during the foreseeable use of this product.

## **SECTION 4: FIRST AID MEASURES**

#### 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

**Skin Contact:** Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

**Inhalation:** No need for first aid is anticipated.

**If Swallowed:** Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

# **SECTION 5: FIRE FIGHTING MEASURES**

### 5.1 FLAMMABLE PROPERTIES

Autoignition temperature
Flash Point
Flammable Limits(LEL)
Flammable Limits(UEL)

Not Applicable No flash point Not Applicable Not Applicable

#### 5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

# 5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Not applicable.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode.

#### **6.2. Environmental precautions**

Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

#### **Clean-up methods**

Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill. Collect as much of the spilled material as possible. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS.

# In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

# **SECTION 7: HANDLING AND STORAGE**

#### 7.1 HANDLING

Avoid eye contact. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Avoid eye contact with dust or airborne particles.

#### 7.2 STORAGE

Store away from heat. Store out of direct sunlight. Store away from areas where product may come into contact with food or pharmaceuticals.

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1 ENGINEERING CONTROLS

Not applicable.

### 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### 8.2.1 Eye/Face Protection

Avoid eye contact. The following eye protection(s) are recommended: Safety Glasses with side shields

#### 8.2.2 Skin Protection

Avoid skin contact. Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

#### 8.2.3 Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

#### 8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Do not ingest.

### 8.3 EXPOSURE GUIDELINES

<b>Ingredient</b>	<u>Authority</u>	<u>Type</u>	<u>Limit</u>	Additional Information
BARIUM, SOLUBLE COMPOUNDS	ACGIH	TWA, as Ba	0.5 mg/m3	
BARIUM, SOLUBLE COMPOUNDS	OSHA	TWA, as Ba	0.5 mg/m3	
CRISTOBALITE	ACGIH	TWA, respirable	0.025 mg/m3	
		fraction		
CRISTOBALITE	OSHA	TWA concentration,	0.05 mg/m3	
		respirable		
CRISTOBALITE	OSHA	TWA concentration,	0.15 mg/m3	
		as total dust		
SILICA, AMORPHOUS	OSHA	TWA concentration	0.8 mg/m3	
SILICA, AMORPHOUS	OSHA	TWA	20 millions of	
			particles/cu. ft.	

#### SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists CMRG: Chemical Manufacturer Recommended Guideline OSHA: Occupational Safety and Health Administration AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Specific Physical Form: Odor, Color, Grade: General Physical Form: Autoignition temperature Flash Point Flammable Limits(LEL) Flammable Limits(UEL) Boiling Point Density Vapor Density

Vapor Pressure

Specific Gravity pH Melting point

Solubility in Water Evaporation rate Volatile Organic Compounds Kow - Oct/Water partition coef Paste Characteristic odor, blue in color Solid Not Applicable No flash point Not Applicable Not Applicable Not Applicable No Data Available Not Applicable

Not Applicable

1.0 - 1.2 [*Ref Std:* WATER=1] *No Data Available Not Applicable* 

Negligible Not Applicable Not Applicable No Data Available

Percent volatile VOC Less H2O & Exempt Solvents Viscosity Not Applicable Not Applicable 40000 - 150000 centipoise

# **SECTION 10: STABILITY AND REACTIVITY**

Stability: Stable.

Materials and Conditions to Avoid: 10.1 Conditions to avoid Heat

**10.2 Materials to avoid** None known

Hazardous Polymerization: Hazardous polymerization will not occur.

#### Hazardous Decomposition or By-Products

<u>Substance</u> Carbon monoxide Carbon dioxide Irritant Vapors or Gases <u>Condition</u> During Combustion During Combustion During Combustion

# SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

# **SECTION 12: ECOLOGICAL INFORMATION**

### ECOTOXICOLOGICAL INFORMATION

Not determined.

### CHEMICAL FATE INFORMATION

Not determined.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** Dispose of completely cured (or polymerized) wastes in a sanitary landfill. Incinerate in an industrial or commercial facility in the presence of a combustible material. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

#### EPA Hazardous Waste Number (RCRA): Not regulated

#### Since regulations vary, consult applicable regulations or authorities before disposal.

# **SECTION 14:TRANSPORT INFORMATION**

#### LE-F100-0141-4

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

### **SECTION 15: REGULATORY INFORMATION**

#### **US FEDERAL REGULATIONS**

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

Ingredient	C.A.S. No	<u>% by Wt</u>
C.I. PIGMENT WHITE 5 (Barium compounds,	1345-05-7	< 2
except barium sulfate)		
C.I. PIGMENT WHITE 5 (ZINC COMPOUNDS)	1345-05-7	< 2

### **STATE REGULATIONS**

Contact 3M for more information.

#### **CHEMICAL INVENTORIES**

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS. This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

#### **INTERNATIONAL REGULATIONS**

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# **SECTION 16: OTHER INFORMATION**

#### NFPA Hazard Classification

Health: 2 Flammability: 1 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision Changes: Section 13: Waste disposal method information was modified. Section 6: Personal precautions information was modified.

Section 6: Environmental procedures information was modified. Section 6: Methods for cleaning up information was modified. Copyright was modified.

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# **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:**3MTM ESPETM IMPREGUMTM PENTATM SOFT QUICK STEP MEDIUM BODY<br/>CATALYST**MANUFACTURER:**3M**DIVISION:**3M ESPE Dental Products

ADDRESS: 3M Center, St. Paul, MN 55144-1000

#### EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

**Issue Date:** 12/11/12 **Supercedes Date:** 08/18/04

Document Group: 19-2469-5

#### **Product Use:**

Intended Use: Limitations on Use: Specific Use: Dental Product For use only by dental professionals Impression Material

# **SECTION 2: INGREDIENTS**

Ingredient	<u>C.A.S. No.</u>	<u>% by Wt</u>
CITRIC ESTER	77-90-7	35 - 50
SILANE TREATED SILICA	68909-20-6	20 - 30
SULFONIUM SALT	Trade Secret	15 - 25
DIATOMACEOUS EARTH	68855-54-9	10 - 20
POLYETHYLENE-POLYPROPYLENE GLYCOL	9003-11-6	1 - 5

# **SECTION 3: HAZARDS IDENTIFICATION**

# 3.1 EMERGENCY OVERVIEW

Specific Physical Form: PasteOdor, Color, Grade: Dark red color, slightly acrid odorGeneral Physical Form: SolidImmediate health, physical, and environmental hazards: May cause target organ effects. This document has been prepared in

accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

# 3.2 POTENTIAL HEALTH EFFECTS

#### **Eye Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### **Skin Contact:**

Moderate Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

#### Inhalation:

This product may have a characteristic odor; however, no adverse health effects are anticipated.

#### **Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May be absorbed following ingestion and cause target organ effects.

#### Target Organ Effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

# **SECTION 4: FIRST AID MEASURES**

#### 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

**Skin Contact:** Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

**Inhalation:** No need for first aid is anticipated.

**If Swallowed:** Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

# **SECTION 5: FIRE FIGHTING MEASURES**

### 5.1 FLAMMABLE PROPERTIES

Autoignition temperature Flash Point Flammable Limits(LEL) Flammable Limits(UEL)

No Data Available No flash point Not Applicable Not Applicable

#### 5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

# 5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Not applicable.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air.

#### **6.2.** Environmental precautions

Reclaim undamaged product. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

#### Clean-up methods

Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill. Collect as much of the spilled material as possible. Clean up residue.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

# **SECTION 7: HANDLING AND STORAGE**

#### 7.1 HANDLING

Avoid eye contact. Avoid prolonged or repeated skin contact.

#### 7.2 STORAGE

Store away from heat. Store out of direct sunlight.

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **8.1 ENGINEERING CONTROLS**

Not applicable.

### 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### 8.2.1 Eye/Face Protection

Avoid eye contact. The following eye protection(s) are recommended: Safety Glasses with side shields

#### 8.2.2 Skin Protection

Avoid prolonged or repeated skin contact.

#### 8.2.3 Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

#### 8.2.4 Prevention of Swallowing

Do not ingest.

### 8.3 EXPOSURE GUIDELINES

None Established

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Specific Physical Form: Odor, Color, Grade: General Physical Form: Autoignition temperature Flash Point Flammable Limits(LEL) Flammable Limits(UEL) Boiling Point

Vapor Density

**Vapor Pressure** 

Specific Gravity pH Melting point

Solubility in Water Evaporation rate Volatile Organic Compounds Kow - Oct/Water partition coef Percent volatile VOC Less H2O & Exempt Solvents Viscosity Paste Dark red color, slightly acrid odor Solid *No Data Available* No flash point *Not Applicable Not Applicable Not Applicable* 

Not Applicable

Not Applicable

1.1 - 1.4 [*Ref Std:* WATER=1] *No Data Available No Data Available* 

Nil Not Applicable Not Applicable No Data Available Not Applicable Not Applicable No Data Available

# **SECTION 10: STABILITY AND REACTIVITY**

#### Stability: Stable.

Materials and Conditions to Avoid: 10.1 Conditions to avoid Heat

**10.2 Materials to avoid** Not determined

Hazardous Polymerization: Hazardous polymerization will not occur.

### **Hazardous Decomposition or By-Products**

Substance Irritant Vapors or Gases Condition During Combustion

# SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

# **SECTION 12: ECOLOGICAL INFORMATION**

## ECOTOXICOLOGICAL INFORMATION

Not determined.

## CHEMICAL FATE INFORMATION

Not determined.

# SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Cure (harden, set, or react) the product according to product instructions. Dispose of waste product in a sanitary landfill. Dispose of completely cured (or polymerized) wastes in a sanitary landfill. As a disposal alternative, incinerate in an industrial or commercial facility in the presence of a combustible material. As a disposal alternative, incinerate in an industrial or commercial facility.

#### EPA Hazardous Waste Number (RCRA): Not regulated

Since regulations vary, consult applicable regulations or authorities before disposal.

# **SECTION 14:TRANSPORT INFORMATION**

LE-F100-0141-5

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

# **SECTION 15: REGULATORY INFORMATION**

### **US FEDERAL REGULATIONS**

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - No Delayed Hazard - No

### STATE REGULATIONS

Contact 3M for more information.

#### **CHEMICAL INVENTORIES**

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

#### **INTERNATIONAL REGULATIONS**

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### **SECTION 16: OTHER INFORMATION**

#### NFPA Hazard Classification

Health: 1 Flammability: 1 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

**Revision Changes:** 

Section 1: Product name was modified.

Section 1: Product use information was modified.

Section 16: Disclaimer (second paragraph) was modified.

Section 3: Potential effects from eye contact was modified.

Section 3: Potential effects from skin contact information was modified.

Section 3: Potential effects from inhalation information was modified.

Section 3: Potential effects from ingestion information was modified.

Section 8: Skin protection phrase was modified.

Section 10: Hazardous decomposition or by-products table was modified.

Section 13: Waste disposal method information was modified.

Section 8: Eye/face protection information was modified.

Section 4: First aid for skin contact - decontamination - was modified.

Section 4: First aid for skin contact - medical assistance - was modified.

Section 14: Transportation legal text was modified.

Page Heading: Product name was modified.

Section 9: Vapor density value was modified.

Section 9: Vapor pressure value was modified.

Section 9: Boiling point information was modified.

Section 5: Flammable limits (UE) information was modified.

Section 5: Flammable limits (LEL) information was modified.

Section 5: Autoignition temperature information was modified.

Section 5: Flash point information was modified.

Section 9: Property description for optional properties was modified.

Section 9: Specific gravity information was modified.

Section 9: pH information was modified.

Section 9: Melting point information was modified.

Section 9: Solubility in water text was modified.

Section 9: Flash point information was modified.

Section 9: Flammable limits (LEL) information was modified.

Section 9: Flammable limits (UEL) information was modified.

Section 9: Autoignition temperature information was modified. Section 3: Other potential health effects heading was added. Section 4: First aid for skin contact - termination of exposure - was added. Section 4: First aid for skin contact - handling - was added. Section 4: First aid for ingestion (swallowing) - decontamination - was added. Section 4: First aid for ingestion (swallowing) - intervention - was added. Section 4: First aid for ingestion (swallowing) - medical assistance - was added. Section 3: Immediate other hazard(s) was added. Section 3: Other health effects information was added. Section 14: ID Number(s) Template 1 was added. Section 2: Ingredient table was added. Section 8: Exposure guidelines information - none - was added. Section 6: 6.2. Environmental precautions heading was added. Section 6: 6.1. Personal precautions, protective equipment and emergency procedures heading was added. Section 10.1 Conditions to avoid heading was added. Section 10.2 Materials to avoid heading was added. Section 16: Web address was added. Section 6: Personal precautions information was added. Section 6: Environmental procedures information was added. Section 6: Methods for cleaning up information was added. Section 10: Materials to avoid physical property was added. Section 10: Conditions to avoid physical property was added. Section 1: Address was added. Copyright was added. Company logo was added. Section 6: Clean-up methods heading was added. Telephone header was added. Company Telephone was added. Section 1: Emergency phone information was added. Section 1: Emergency phone information was deleted. Company Logo was deleted. Copyright was deleted. Section 16: Web address heading was deleted. Section 6: Release measures information was deleted. Section 6: Release measures heading was deleted. Section 10: Materials and conditions to avoid physical property was deleted. Section 1: Address line 1 was deleted. Section 1: Address line 2 was deleted. Section 4: First aid for ingestion (swallowing) - none - was deleted.

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# **Safety Data Sheet**

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Issue Date:	02/25/16	Supercedes Date:	10/09/14

### **SECTION 1: Identification**

**1.1. Product identifier** 30601 POLYETHER ADHESIVE - 17 ML BOTTLE (NA)

# Product Identification Numbers

70-2011-0895-1, 70-2011-0997-5

#### 1.2. Recommended use and restrictions on use

Recommended use Dental Product, Used in impressioning systems. Restrictions on use For use only by dental professionals.

1.3. Supplier's details	
<b>MANUFACTURER:</b>	3M
<b>DIVISION:</b>	Oral Care Solutions Division
ADDRESS:	3M Center, St. Paul, MN 55144-1000, USA
Telephone:	1-888-3M HELPS (1-888-364-3577)

**1.4. Emergency telephone number** 1-800-364-3577 or (651) 737-6501 (24 hours)

### **SECTION 2: Hazard identification**

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

#### 2.1. Hazard classification

Flammable Liquid: Category 2. Serious Eye Damage/Irritation: Category 2A. Specific Target Organ Toxicity (central nervous system): Category 3.

#### 2.2. Label elements Signal word

Danger

Symbols Flame | Exclamation mark |

#### **Pictograms**



Hazard Statements Highly flammable liquid and vapor.

Causes serious eye irritation. May cause drowsiness or dizziness.

#### **Precautionary Statements**

#### **Prevention:**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only in a well-ventilated area. Wear protective gloves and eye/face protection. Wash thoroughly after handling.

#### **Response:**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell.

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

#### Storage:

Store in a well-ventilated place. Keep cool. Keep container tightly closed.

#### **Disposal:**

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

# **2.3.** Hazards not otherwise classified

None.

# **SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt
ETHYL ACETATE	141-78-6	25 - 50 Trade Secret *
HEPTANE	142-82-5	25 - 35 Trade Secret *
ACETONE	67-64-1	5 - 15 Trade Secret *
METHYLCYCLOHEXANE	108-87-2	5 - 10 Trade Secret *
FORMALDEHYDE, POLYMER WITH 1,3-	59633-97-5	0 - 5 Trade Secret *
BENZENEDIOL AND 4-(1,1-		

DIMETHYLETHYL)PHENOL		
POLYCHLOROPRENE	9010-98-4	0 - 5 Trade Secret *
CYCLOHEXANE	110-82-7	0 - 0.5 Trade Secret *
ZINC OXIDE	1314-13-2	0 - 0.2 Trade Secret *

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

#### **Skin Contact:**

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

#### **Eye Contact:**

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

#### If Swallowed:

Rinse mouth. Do not induce vomiting. Get immediate medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

# 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

### **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

#### 5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

#### Hazardous Decomposition or By-Products

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Irritant Vapors or Gases	During Combustion

#### 5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### **6.2.** Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Contain spill. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with detergent and water. Seal the container. Dispose of collected material as soon as possible.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Avoid prolonged or repeated skin contact. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

#### 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from oxidizing agents.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	<b>Additional Comments</b>
METHYLCYCLOHEXANE	108-87-2	ACGIH	TWA:400 ppm	
METHYLCYCLOHEXANE	108-87-2	OSHA	TWA:2000 mg/m3(500 ppm)	
CYCLOHEXANE	110-82-7	ACGIH	TWA:100 ppm	
CYCLOHEXANE	110-82-7	OSHA	TWA:1050 mg/m3(300 ppm)	
ZINC OXIDE	1314-13-2	ACGIH	TWA(respirable fraction):2	
			mg/m3;STEL(respirable	
			fraction):10 mg/m3	
ZINC OXIDE	1314-13-2	OSHA	TWA(as fume):5	
			mg/m3;TWA(as total dust):15	
			mg/m3;TWA(respirable	
			fraction):5 mg/m3	
ETHYL ACETATE	141-78-6	ACGIH	TWA:400 ppm	
ETHYL ACETATE	141-78-6	OSHA	TWA:1400 mg/m3(400 ppm)	
HEPTANE	142-82-5	ACGIH	TWA:400 ppm;STEL:500 ppm	
HEPTANE	142-82-5	OSHA	TWA:2000 mg/m3(500 ppm)	
ACETONE	67-64-1	ACGIH	TWA:250 ppm;STEL:500 ppm	A4: Not class. as human
				carcin
ACETONE	67-64-1	OSHA	TWA:2400 mg/m3(1000 ppm)	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit CEIL: Ceiling

#### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use in a well-ventilated area.

#### 8.2.2. Personal protective equipment (PPE)

#### **Eye/face protection**

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Safety Glasses with side shields

#### **Skin/hand protection**

See Section 7.1 for additional information on skin protection.

#### **Respiratory protection**

None required.

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

1. Information on busic physical and chemical p	n oper ties
General Physical Form:	Liquid
Specific Physical Form:	Liquid
Odor, Color, Grade:	Blue in color, characteristic solvent odor.
Odor threshold	No Data Available
рН	No Data Available
Melting point	No Data Available
Boiling Point	133 °F
Flash Point	30 °F [Test Method: Closed Cup]
Evaporation rate	Approximately 1 [ <i>Ref Std:</i> BUOAC=1]
Flammability (solid, gas)	Not Applicable
Flammable Limits(LEL)	No Data Available
Flammable Limits(UEL)	No Data Available
Vapor Pressure	180 mmHg
Vapor Density	2 - 4 [ <i>Ref Std:</i> AIR=1]
Density	No Data Available
Specific Gravity	0.8 - 0.9 [ <i>Ref Std:</i> WATER=1]
Solubility in Water	Moderate
Solubility- non-water	No Data Available
Partition coefficient: n-octanol/ water	No Data Available
Autoignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	40,000 centipoise
Molecular weight	No Data Available
Volatile Organic Compounds	No Data Available
Percent volatile	No Data Available
VOC Less H2O & Exempt Solvents	No Data Available
-	

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

# **10.2. Chemical stability** Stable.

Stable

#### **10.3. Possibility of hazardous reactions** Hazardous polymerization will not occur.

**10.4. Conditions to avoid** Heat Sparks and/or flames

**10.5. Incompatible materials** Strong acids Strong oxidizing agents

#### **10.6. Hazardous decomposition products** <u>Substance</u> None known.

Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

# **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause additional health effects (see below).

#### Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

#### **Eye Contact:**

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

#### **Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause additional health effects (see below).

#### **Additional Health Effects:**

#### Single exposure may cause target organ effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

#### **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### Acute Toxicity Name Route Species Value No data available; calculated ATE > 5,000 mg/kg Overall product Dermal Overall product Ingestion No data available; calculated ATE > 5,000 mg/kg HEPTANE Dermal Rabbit LD50 3,000 mg/kg HEPTANE Inhalation-Rat LC50 103 mg/l Vapor (4 hours) HEPTANE Rat LD50 > 15,000 mg/kg Ingestion ETHYL ACETATE Rabbit LD50 > 18,000 mg/kg Dermal ETHYL ACETATE Inhalation-Rat LC50 70.5 mg/l Vapor (4 hours) ETHYL ACETATE Ingestion Rat LD50 5,620 mg/kg ACETONE Dermal Rabbit LD50 > 15,688 mg/kg ACETONE Inhalation-Rat LC50 76 mg/l Vapor (4 hours) ACETONE Rat LD50 5,800 mg/kg Ingestion METHYLCYCLOHEXANE Inhalation-Mouse LC50 26 mg/l Vapor (4 hours) METHYLCYCLOHEXANE Dermal Rabbit LD50 > 86,700 mg/kg METHYLCYCLOHEXANE Rat LD50 > 3,200 mg/kg Ingestion POLYCHLOROPRENE Dermal LD50 estimated to be > 5,000 mg/kg POLYCHLOROPRENE Ingestion Rat LD50 > 20,000 mg/kg CYCLOHEXANE Dermal Rat LD50 > 2,000 mg/kg **CYCLOHEXANE** Rat LC50 > 32.9 mg/l Inhalation-Vapor (4 hours) CYCLOHEXANE Rat LD50 6,200 mg/kg Ingestion ZINC OXIDE LD50 estimated to be > 5,000 mg/kg Dermal ZINC OXIDE Inhalation-Rat LC50 > 5.7 mg/l Dust/Mist (4 hours) ZINC OXIDE Rat LD50 > 5,000 mg/kg Ingestion

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Name	Species	Value
HEPTANE	Human	Mild irritant
ETHYL ACETATE	Rabbit	Minimal irritation
ACETONE	Mouse	Minimal irritation
METHYLCYCLOHEXANE	Rabbit	Minimal irritation
POLYCHLOROPRENE	Human	No significant irritation

CYCLOHEXANE	Rabbit	Mild irritant
ZINC OXIDE	Human	No significant irritation
	and	
	animal	

#### Serious Eye Damage/Irritation

Name	Species	Value
HEPTANE	Professio	Moderate irritant
	nal	
	judgeme	
	nt	
ETHYL ACETATE	Rabbit	Mild irritant
ACETONE	Rabbit	Severe irritant
METHYLCYCLOHEXANE	Rabbit	Mild irritant
POLYCHLOROPRENE	Professio	No significant irritation
	nal	
	judgeme	
	nt	
CYCLOHEXANE	Rabbit	Mild irritant
ZINC OXIDE	Rabbit	Mild irritant

#### Skin Sensitization

Name	Species	Value
ETHYL ACETATE	Guinea	Not sensitizing
	pig	
ZINC OXIDE	Guinea	Some positive data exist, but the data are not
	pig	sufficient for classification

#### **Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

## Germ Cell Mutagenicity

Name	Route	Value
HEPTANE	In Vitro	Not mutagenic
ETHYL ACETATE	In Vitro	Not mutagenic
ETHYL ACETATE	In vivo	Not mutagenic
ACETONE	In vivo	Not mutagenic
ACETONE	In Vitro	Some positive data exist, but the data are not
		sufficient for classification
CYCLOHEXANE	In Vitro	Not mutagenic
CYCLOHEXANE	In vivo	Some positive data exist, but the data are not
		sufficient for classification
ZINC OXIDE	In Vitro	Some positive data exist, but the data are not
		sufficient for classification
ZINC OXIDE	In vivo	Some positive data exist, but the data are not
		sufficient for classification

#### Carcinogenicity

Name	Route	Species	Value
ACETONE	Not	Multiple	Not carcinogenic
	Specified	animal	
		species	
METHYLCYCLOHEXANE	Inhalation	Multiple	Not carcinogenic
		animal	
		species	

### **Reproductive Toxicity**

#### **Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test Result	Exposure
					Duration

ACETONE	Ingestion	Some positive male reproductive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,700 mg/kg/day	13 weeks
ACETONE	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 5.2 mg/l	during organogenesi s
CYCLOHEXANE	Inhalation	Not toxic to female reproduction	Rat	NOAEL 24 mg/l	2 generation
CYCLOHEXANE	Inhalation	Not toxic to male reproduction	Rat	NOAEL 24 mg/l	2 generation
CYCLOHEXANE	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 6.9 mg/l	2 generation
ZINC OXIDE	Ingestion	Some positive reproductive/developmental data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL 125 mg/kg/day	premating & during gestation

### Target Organ(s)

### Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
HEPTANE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
HEPTANE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
HEPTANE	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
ETHYL ACETATE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
ETHYL ACETATE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
ETHYL ACETATE	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
ACETONE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
ACETONE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
ACETONE	Inhalation	immune system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL 1.19 mg/l	6 hours
ACETONE	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Guinea pig	NOAEL Not available	
ACETONE	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
METHYLCYCLOHEXAN E	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	
METHYLCYCLOHEXAN E	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
METHYLCYCLOHEXAN E	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professio nal judgeme nt	NOAEL Not available	
CYCLOHEXANE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
CYCLOHEXANE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human and animal	NOAEL Not available	
CYCLOHEXANE	Ingestion	central nervous	May cause drowsiness or	Professio	NOAEL Not	

	system depression	dizziness	nal judgeme nt	available	
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### Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
HEPTANE	Inhalation	liver   nervous system   kidney and/or bladder	All data are negative	Rat	NOAEL 12 mg/l	26 weeks
ETHYL ACETATE	Inhalation	endocrine system   liver   nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.043 mg/l	90 days
ETHYL ACETATE	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 16 mg/l	40 days
ETHYL ACETATE	Ingestion	hematopoietic system   liver   kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 3,600 mg/kg/day	90 days
ACETONE	Dermal	eyes	Some positive data exist, but the data are not sufficient for classification	Guinea pig	NOAEL Not available	3 weeks
ACETONE	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL 3 mg/l	6 weeks
ACETONE	Inhalation	immune system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL 1.19 mg/l	6 days
ACETONE	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Guinea pig	NOAEL 119 mg/l	not available
ACETONE	Inhalation	heart   liver	All data are negative	Rat	NOAEL 45 mg/l	8 weeks
ACETONE	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 900 mg/kg/day	13 weeks
ACETONE	Ingestion	heart	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2,500 mg/kg/day	13 weeks
ACETONE	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 200 mg/kg/day	13 weeks
ACETONE	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 3,896 mg/kg/day	14 days
ACETONE	Ingestion	eyes	All data are negative	Rat	NOAEL 3,400 mg/kg/day	13 weeks
ACETONE	Ingestion	respiratory system	All data are negative	Rat	NOAEL 2,500 mg/kg/day	13 weeks
ACETONE	Ingestion	muscles	All data are negative	Rat	NOAEL 2,500 mg/kg	13 weeks
ACETONE	Ingestion	skin   bone, teeth, nails, and/or hair	All data are negative	Mouse	NOAEL 11,298 mg/kg/day	13 weeks
METHYLCYCLOHEXAN E	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.6 mg/l	12 months
METHYLCYCLOHEXAN E	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rabbit	NOAEL 12 mg/l	10 weeks
CYCLOHEXANE	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 24 mg/l	90 days
CYCLOHEXANE	Inhalation	auditory system	Some positive data exist, but the	Rat	NOAEL 1.7	90 days

			data are not sufficient for classification		mg/l	
CYCLOHEXANE	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rabbit	NOAEL 2.7 mg/l	10 weeks
CYCLOHEXANE	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 24 mg/l	14 weeks
CYCLOHEXANE	Inhalation	peripheral nervous system	All data are negative	Rat	NOAEL 8.6 mg/l	30 weeks
ZINC OXIDE	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 600 mg/kg/day	10 days
ZINC OXIDE	Ingestion	endocrine system   hematopoietic system   kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Other	NOAEL 500 mg/kg/day	6 months

#### **Aspiration Hazard**

Name	Value
HEPTANE	Aspiration hazard
METHYLCYCLOHEXANE	Aspiration hazard
CYCLOHEXANE	Aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

## **SECTION 12: Ecological information**

#### **Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

#### **Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

### **SECTION 13: Disposal considerations**

#### **13.1.** Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

#### EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

# **SECTION 14: Transport Information**

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

### **SECTION 15: Regulatory information**

#### **15.1. US Federal Regulations**

Contact 3M for more information.

#### **311/312 Hazard Categories:**

Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

#### **15.2. State Regulations**

Contact 3M for more information.

#### **15.3.** Chemical Inventories

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

#### **15.4. International Regulations**

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## **SECTION 16: Other information**

#### NFPA Hazard Classification

Health: 2 Flammability: 3 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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Issue Date:	11/02/16	Supercedes Date:	02/25/16

# **SECTION 1: Identification**

#### 1.1. Product identifier

IMPREGUM GARANT L DUOSOFT/ IMPREGUM GARANT SOFT LB BASE Paste

**Product Identification Numbers** LE-FSFD-3061-2

#### **1.2. Recommended use and restrictions on use**

Recommended use Dental Product, Impression material Restrictions on use For use only by dental professionals

1.3. Supplier's details MANUFACTURER: DIVISION: ADDRESS: Telephone:

3M Oral Care Solutions Division 3M Center, St. Paul, MN 55144-1000, USA 1-888-3M HELPS (1-888-364-3577)

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

# **SECTION 2: Hazard identification**

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

#### 2.1. Hazard classification

Serious Eye Damage/Irritation: Category 2B. Skin Sensitizer: Category 1A.

2.2. Label elements Signal word Warning

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### Symbols

Exclamation mark |

#### Pictograms



Hazard Statements Causes eye irritation. May cause an allergic skin reaction.

#### **Precautionary Statements**

#### **Prevention:**

Wear protective gloves. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

#### **Response:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

#### Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

# 2.3. Hazards not otherwise classified

None.

# **SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt
ETHYLENE OXIDE TETRAMETHYLENE OXIDE	110531-92-5	70 - 90 Trade Secret *
COPOLYMER		
DIATOMACEOUS EARTH	68855-54-9	1 - 10 Trade Secret *
DIBENZYL TOLUENE	26898-17-9	1 - 10 Trade Secret *
FATTY ACIDS TRIGLYCERIDES	67701-27-3	1 - 10 Trade Secret *
POLYETHYLENE-POLYPROPYLENE GLYCOL	9003-11-6	1 - 10 Trade Secret *
ACETYL TRIBUTYL CITRATE	77-90-7	1 - 5 Trade Secret *
C.I. PIGMENT WHITE 5	1345-05-7	1 - 5 Trade Secret *
CRISTOBALITE	14464-46-1	1 - 5 Trade Secret *
1-DODECYLIMIDAZOLE	4303-67-7	< 1
Mentha arvensis, ext.	90063-97-1	< 0.5 Trade Secret *

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

#### **Skin Contact:**

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

#### **Eye Contact:**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

#### If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

#### **4.3. Indication of any immediate medical attention and special treatment required** Not applicable

### **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

#### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

#### Hazardous Decomposition or By-Products

<u>Substance</u>
Carbon monoxide
Carbon dioxide
Irritant Vapors or Gases

<u>Condition</u> During Combustion During Combustion During Combustion

#### 5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### **6.2. Environmental precautions**

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

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# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Do not get in eyes. A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove.

#### 7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
BARIUM, SOLUBLE	1345-05-7	OSHA	TWA(as Ba):0.5 mg/m3	
COMPOUNDS				
BARIUM, SOLUBLE	1345-05-7	ACGIH	TWA(as Ba):0.5 mg/m3	A4: Not class. as human
COMPOUNDS				carcin
CRISTOBALITE	14464-46-1	OSHA	TWA	
			concentration(respirable):0.05	
			mg/m3(1.2 millions of	
			particles/cu. ft.);TWA:0.05	
			mg/m3	
CRISTOBALITE	14464-46-1	ACGIH	TWA(respirable	A2: Suspected human
			fraction):0.025 mg/m3	carcin.
SILICA, AMORPHOUS	68855-54-9	OSHA	TWA concentration:0.8	
			mg/m3;TWA:20 millions of	
			particles/cu. ft.	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

#### 8.2. Exposure controls

#### **8.2.1. Engineering controls**

Use in a well-ventilated area.

#### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Safety Glasses with side shields

#### Skin/hand protection

See Section 7.1 for additional information on skin protection.

#### **Respiratory protection**

None required.

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

General Physical Form:	Solid	
Specific Physical Form:	Paste	
Odor, Color, Grade:	characteristic odor, Orange colored past	
Odor threshold	No Data Available	
рН	Not Applicable	
Melting point	Not Applicable	
Boiling Point	Not Applicable	
Flash Point	No flash point	
Evaporation rate	Not Applicable	
Flammability (solid, gas)	Not Classified	
Flammable Limits(LEL)	Not Applicable	
Flammable Limits(UEL)	Not Applicable	
Vapor Pressure	No Data Available	
Vapor Density	Not Applicable	
Density	1 g/cm3 - 1.2 g/cm3	
Specific Gravity 1 - 1.2 [ <i>Ref Std:</i> WATER=1]		
Solubility in Water Negligible		
Solubility- non-water	No Data Available	
Partition coefficient: n-octanol/ water	No Data Available	
Autoignition temperature	Not Applicable	
Decomposition temperature	No Data Available	
Viscosity	No Data Available	
Molecular weight	No Data Available	
Volatile Organic Compounds	No Data Available	
Percent volatile	No Data Available	
VOC Less H2O & Exempt Solvents	No Data Available	
_		

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

#### 10.2. Chemical stability

Stable.

# **10.3.** Possibility of hazardous reactions

Hazardous polymerization will not occur.

**10.4. Conditions to avoid** Heat

#### **10.5. Incompatible materials** Strong acids Strong bases

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Strong oxidizing agents

#### **10.6. Hazardous decomposition products**

**Substance** 

None known.

**Condition** 

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Refer to section 5.2 for hazardous decomposition products during combustion.

# **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure. The information below represents toxicological information associated with the individual components of the uncured product. Once properly mixed and/or cured, the product is safe for its intended use.

#### 11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

#### Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

This product may have a characteristic odor; however, no adverse health effects are anticipated.

#### **Skin Contact:**

May be harmful in contact with skin.

Contact with the skin during product use is not expected to result in significant irritation. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### **Eye Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### **Ingestion:**

May be harmful if swallowed.

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

#### **Additional Health Effects:**

#### **Carcinogenicity:**

Exposures needed to cause the following health effect(s) are not expected during normal, intended use: Contains a chemical or chemicals which can cause cancer.

Ingredient	CAS No.	Class Description	Regulation
SILICA, CRYS AIRRESP	14464-46-1	Known human carcinogen	National Toxicology Program Carcinogens
SILICA, CRYS AIRRESP	68855-54-9	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
SILICA, CRYS AIRRESP	68855-54-9	Known human carcinogen	National Toxicology Program Carcinogens
CRISTOBALITE	14464-46-1	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer

#### **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE 2,000 - 5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE 2,000 - 5,000 mg/kg
ETHYLENE OXIDE TETRAMETHYLENE OXIDE COPOLYMER	Dermal	Professio nal judgeme nt	LD50 Not applicable
ETHYLENE OXIDE TETRAMETHYLENE OXIDE COPOLYMER	Ingestion	Rat	LD50 > 2,000 mg/kg
DIBENZYL TOLUENE	Dermal	Rabbit	LD50 > 2,000 mg/kg
DIBENZYL TOLUENE	Ingestion	Rat	LD50 > 10,360 mg/kg
FATTY ACIDS TRIGLYCERIDES	Dermal	Rabbit	LD50 > 2,000 mg/kg
FATTY ACIDS TRIGLYCERIDES	Ingestion	Rat	LD50 > 2,000 mg/kg
CRISTOBALITE	Dermal		LD50 estimated to be > 5,000 mg/kg
CRISTOBALITE	Ingestion		LD50 estimated to be > 5,000 mg/kg
POLYETHYLENE-POLYPROPYLENE GLYCOL	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
POLYETHYLENE-POLYPROPYLENE GLYCOL	Ingestion	Rat	LD50 5,700 mg/kg
DIATOMACEOUS EARTH	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
DIATOMACEOUS EARTH	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 2.7 mg/l
DIATOMACEOUS EARTH	Ingestion	Rat	LD50 > 2,000 mg/kg
C.I. PIGMENT WHITE 5	Ingestion	Rat	LD50 > 15,000 mg/kg
C.I. PIGMENT WHITE 5	Dermal	similar compoun ds	LD50 > 1,000 mg/kg
C.I. PIGMENT WHITE 5	Inhalation- Dust/Mist (4 hours)	similar compoun ds	LC50 > 2.52 mg/l
ACETYL TRIBUTYL CITRATE	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
ACETYL TRIBUTYL CITRATE	Ingestion	Rat	LD50 > 25,000 mg/kg
1-DODECYLIMIDAZOLE	Ingestion	Rat	LD50 641 mg/kg
Mentha arvensis, ext.	Dermal	Rabbit	LD50 > 5,000 mg/kg
Mentha arvensis, ext.	Ingestion	Rat	LD50 1,240 mg/kg

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Name	Species	Value
ETHYLENE OXIDE TETRAMETHYLENE OXIDE COPOLYMER	Rabbit	No significant irritation
CRISTOBALITE	Professio	No significant irritation
	nal	
	judgeme	
	nt	
DIATOMACEOUS EARTH	In vitro	No significant irritation
	data	
1-DODECYLIMIDAZOLE	Rabbit	Mild irritant
Mentha arvensis, ext.	Rabbit	Mild irritant

#### **Serious Eye Damage/Irritation**

Name	Species	Value
ETHYLENE OXIDE TETRAMETHYLENE OXIDE COPOLYMER	Rabbit	Moderate irritant
DIATOMACEOUS EARTH	Rabbit	Mild irritant
1-DODECYLIMIDAZOLE	In vitro	Severe irritant
	data	
Mentha arvensis, ext.	In vitro	Severe irritant
	data	

#### **Skin Sensitization**

Name	Species	Value
ETHYLENE OXIDE TETRAMETHYLENE OXIDE COPOLYMER	Guinea	Not sensitizing
	pig	
DIATOMACEOUS EARTH	Mouse	Not sensitizing
1-DODECYLIMIDAZOLE	Mouse	Sensitizing
Mentha arvensis, ext.	Guinea	Sensitizing
	pig	

#### **Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

#### Germ Cell Mutagenicity

Name	Route	Value
ETHYLENE OXIDE TETRAMETHYLENE OXIDE COPOLYMER	In Vitro	Not mutagenic
CRISTOBALITE	In Vitro	Some positive data exist, but the data are not sufficient for classification
CRISTOBALITE	In vivo	Some positive data exist, but the data are not sufficient for classification
DIATOMACEOUS EARTH	In Vitro	Some positive data exist, but the data are not sufficient for classification
1-DODECYLIMIDAZOLE	In Vitro	Not mutagenic

#### Carcinogenicity

Name	Route	Species	Value
CRISTOBALITE	Inhalation	Human	Carcinogenic
		and	
		animal	
DIATOMACEOUS EARTH	Inhalation	Human	Carcinogenic
		and	
		animal	

#### **Reproductive Toxicity**

#### **Reproductive and/or Developmental Effects**

For the component/components, either no data are currently available or the data are not sufficient for classification.

#### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

For the component/components, either no data are currently available or the data are not sufficient for classification.

#### Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
CRISTOBALITE	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
DIATOMACEOUS EARTH	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure

DIATOMACEOUS Inge EARTH	gestion hematopoieti system   eyes kidney and/o bladder		Rat	NOAEL 3,738 mg/kg/day	90 days
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#### **Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

# Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

### **SECTION 12: Ecological information**

#### **Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

#### **Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

## **SECTION 13: Disposal considerations**

#### **13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. If no other disposal options are available, waste product that has been completely cured or polymerized may be placed in a landfill properly designed for industrial waste.

### **SECTION 14: Transport Information**

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

# **SECTION 15: Regulatory information**

#### **15.1. US Federal Regulations**

Contact 3M for more information.

#### **311/312 Hazard Categories:**

Fire Hazard - No	Pressure Hazard - No	Reactivity Hazard - No	Immediate Hazard - Yes	Delayed Hazard -
No		-		-

#### Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

Ingredient	<u>C.A.S. No</u>	<u>% by Wt</u>
C.I. PIGMENT WHITE 5 (Barium compounds,	1345-05-7	1 - 5
except barium sulfate)		
C.I. PIGMENT WHITE 5 (ZINC COMPOUNDS)	1345-05-7	1 - 5

#### **15.2. State Regulations**

#### IMPREGUM GARANT L DUOSOFT/ IMPREGUM GARANT SOFT LB BASE Paste 11/02/16

Contact 3M for more information.

#### **15.3.** Chemical Inventories

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

#### **15.4. International Regulations**

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### **SECTION 16: Other information**

#### **NFPA Hazard Classification**

Health: 2 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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Issue Date:	02/18/15	Supercedes Date:	01/02/13

#### **Product identifier**

3MTM ESPETM IMPREGUMTMPENTATM SOFT QUICK STEP MEDIUM BODY Refill

#### **ID** Number(s):

70-2011-3004-7

#### Recommended use

Dental Product, Impression Material **Restrictions on use** For use only by dental professionals.

#### Supplier's details

MANUFACTURER:	3M
DIVISION:	3M ESPE Dental Products

ADDRESS:	3M Center, St. Paul, MN 55144-1000, USA
Telephone:	1-888-3M HELPS (1-888-364-3577)

Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet (SDS), Article Information Sheet (AIS), or Article Information Letter (AIL) for each of these components is included. Please do not separate the component documents from this cover page. The document numbers for components of this product are:

#### 19-2468-7, 19-2469-5

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### 3M<sup>TM</sup> ESPE<sup>TM</sup> IMPREGUM<sup>TM</sup>PENTA<sup>TM</sup> SOFT QUICK STEP MEDIUM BODY Refill 02/18/15

In addition, information obtained from a database may not be as current as the information in the SDS available directly from 3M

#### 3M USA SDSs are available at www.3M.com

#### 3MTM ESPETM IMPREGUMTM PENTATM SOFT QUICK STEP MEDIUM BODY BASE 06/10/15



### Safety Data Sheet

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Document Group:	19-2468-7	Version Number:	5.00
Issue Date:	06/10/15	Supercedes Date:	05/29/15

### **SECTION 1: Identification**

#### 1.1. Product identifier

3MTM ESPETM IMPREGUMTM PENTATM SOFT QUICK STEP MEDIUM BODY BASE

**Product Identification Numbers** LE-F100-0141-4

#### 1.2. Recommended use and restrictions on use

#### **Recommended use**

Dental Product, Impression Material **Restrictions on use** For use only by dental professionals

1.3. Supplier's details	
<b>MANUFACTURER:</b>	3M
<b>DIVISION:</b>	3M ESPE Dental Products
ADDRESS:	3M Center, St. Paul, MN 55144-1000, USA
Telephone:	1-888-3M HELPS (1-888-364-3577)

**1.4. Emergency telephone number** 1-800-364-3577 or (651) 737-6501 (24 hours)

### **SECTION 2: Hazard identification**

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

**2.1. Hazard classification** Serious Eye Damage/Irritation: Category 2B. Skin Sensitizer: Category 1A.

**2.2. Label elements Signal word** Warning

Symbols Exclamation mark |

#### 3MTM ESPETM IMPREGUMTM PENTATM SOFT QUICK STEP MEDIUM BODY BASE 06/10/15

#### Pictograms



Hazard Statements Causes eye irritation. May cause an allergic skin reaction.

#### **Precautionary Statements**

#### **Prevention:**

Wear protective gloves. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

#### **Response:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

#### **Disposal:**

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

## **2.3. Hazards not otherwise classified** None.

### **SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt
POLYETHER	110531-92-5	50 - 60 Trade Secret *
FATTY ACID TRIGLYCERIDES	67701-27-3	10 - 20 Trade Secret *
DIATOMACEOUS EARTH	68855-54-9	10 - 20 Trade Secret *
DIBENZYL TOLUENE	26898-17-9	5 - 15 Trade Secret *
CRISTOBALITE	14464-46-1	1 - 10 Trade Secret *
SULFONAMIDE	80-39-7	1 - 5 Trade Secret *
C.I. PIGMENT WHITE 5	1345-05-7	< 2 Trade Secret *
1-DODECYLIMIDAZOLE	4303-67-7	< 0.8 Trade Secret *
Mentha arvensis, ext.	90063-97-1	< 0.5 Trade Secret *

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

Inhalation:

#### 3M<sup>TM</sup> ESPE<sup>TM</sup> IMPREGUM<sup>TM</sup> PENTA<sup>TM</sup> SOFT QUICK STEP MEDIUM BODY BASE 06/10/15

Remove person to fresh air. If you feel unwell, get medical attention.

#### **Skin Contact:**

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

#### **Eye Contact:**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

#### If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

### **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

#### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

#### Hazardous Decomposition or By-Products

Substance	<b>Condition</b>
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Irritant Vapors or Gases	During Combustion

#### 5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### **6.2. Environmental precautions**

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should

#### **3MTM ESPETM IMPREGUMTM PENTATM SOFT QUICK STEP MEDIUM BODY BASE** 06/10/15

not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Do not get in eyes. A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove.

#### 7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
CRISTOBALITE	14464-46-1	ACGIH	TWA(respirable	A2: Suspected human
			fraction):0.025 mg/m3	carcin.
CRISTOBALITE	14464-46-1	OSHA	TWA concentration(as total	
			dust):0.15 mg/m3;TWA	
			concentration(respirable):0.05	
			mg/m3(1.2 millions of	
			particles/cu. ft.)	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

#### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use in a well-ventilated area.

#### 8.2.2. Personal protective equipment (PPE)

#### **Eye/face protection**

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Safety Glasses with side shields

#### Skin/hand protection

See Section 7.1 for additional information on skin protection.

#### **Respiratory protection**

None required.

### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties<br/>General Physical Form:Solid<br/>Solid<br/>Solid<br/>Faste

#### 3MTM ESPETM IMPREGUMTM PENTATM SOFT QUICK STEP MEDIUM BODY BASE 06/10/15

**Odor, Color, Grade: Odor threshold** pH **Melting point Boiling Point Flash Point Evaporation rate** Flammability (solid, gas) Flammable Limits(LEL) Flammable Limits(UEL) Vapor Pressure Vapor Density Density **Specific Gravity** Solubility in Water Solubility- non-water Partition coefficient: n-octanol/ water Autoignition temperature **Decomposition temperature** Viscosity **Volatile Organic Compounds Percent volatile VOC Less H2O & Exempt Solvents** 

Characteristic odor, blue colored paste No Data Available No Data Available Not Applicable Not Applicable Flash point > 93 °C (200 °F) Not Applicable Not Classified Not Applicable Not Applicable Not Applicable Not Applicable 1 - 1.2 g/cm3 > 1 [*Ref Std:* WATER=1] Negligible No Data Available No Data Available Not Applicable No Data Available No Data Available Not Applicable Not Applicable Not Applicable

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

#### 10.2. Chemical stability

Stable.

#### **10.3. Possibility of hazardous reactions** Hazardous polymerization will not occur.

**10.4. Conditions to avoid** Heat

**10.5. Incompatible materials** Strong acids Strong bases Strong oxidizing agents

# 10.6. Hazardous decomposition products <u>Substance</u>

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

### **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be

Condition

#### 3M<sup>TM</sup> ESPE<sup>TM</sup> IMPREGUM<sup>TM</sup> PENTA<sup>TM</sup> SOFT QUICK STEP MEDIUM BODY BASE 06/10/15

reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure. The information below represents toxicological information associated with the individual components of the uncured product. Once properly mixed and/or cured, the product is safe for its intended use.

#### 11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

#### Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

This product may have a characteristic odor; however, no adverse health effects are anticipated.

#### **Skin Contact:**

May be harmful in contact with skin.

Contact with the skin during product use is not expected to result in significant irritation. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### **Eye Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### **Ingestion:**

May be harmful if swallowed. Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

#### **Additional Health Effects:**

#### **Carcinogenicity:**

Exposures needed to cause the following health effect(s) are not expected during normal, intended use: Contains a chemical or chemicals which can cause cancer.

Ingredient	CAS No.	Class Description	Regulation
SILICA, CRYS AIRRESP	14464-46-1	Known human carcinogen	National Toxicology Program Carcinogens
CRISTOBALITE	14464-46-1	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer

#### **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE 2,000 - 5,000
			mg/kg
Overall product	Ingestion		No data available; calculated ATE 2,000 - 5,000
			mg/kg
POLYETHER	Dermal	Professio	LD50 Not applicable
		nal	
		judgeme	
		nt	
POLYETHER	Ingestion	Rat	LD50 > 2,000 mg/kg
FATTY ACID TRIGLYCERIDES	Dermal	Rabbit	LD50 > 2,000 mg/kg
FATTY ACID TRIGLYCERIDES	Ingestion	Rat	LD50 > 2,000 mg/kg

#### 3M<sup>TM</sup> ESPE<sup>TM</sup> IMPREGUM<sup>TM</sup> PENTA<sup>TM</sup> SOFT QUICK STEP MEDIUM BODY BASE 06/10/15

Dermal	Rabbit	LD50 > 2,000 mg/kg
Ingestion	Rat	LD50 > 10,360 mg/kg
Dermal		LD50 estimated to be $> 5,000 \text{ mg/kg}$
Ingestion		LD50 estimated to be $> 5,000 \text{ mg/kg}$
Dermal	Rabbit	LD50 > 5,000 mg/kg
Inhalation-	Rat	LC50 > 0.691 mg/l
Dust/Mist		
(4 hours)		
Ingestion	Rat	LD50 > 5,110 mg/kg
Dermal	Rabbit	LD50 > 5,000 mg/kg
Ingestion	similar	LD50 estimated to be 300 - 2,000 mg/kg
_	compoun	
	ds	
Ingestion	Rat	LD50 > 15,000 mg/kg
Dermal	similar	LD50 > 1,000 mg/kg
	compoun	
	ds	
Inhalation-	similar	LC50 > 2.52 mg/l
Dust/Mist	compoun	
(4 hours)	ds	
Ingestion	Rat	LD50 641 mg/kg
Dermal	Rabbit	LD50 > 5,000 mg/kg
Ingestion	Rat	LD50 1,240 mg/kg
	Ingestion Dermal Ingestion Dermal Insestion Dermal Inhalation- Dust/Mist (4 hours) Ingestion Dermal Ingestion Ingestion Ingestion Ingestion Ingestion Ingestion Ingestion Dermal Inhalation- Dust/Mist (4 hours) Ingestion Dermal Ingestion	Ingestion     Rat       Dermal     Ingestion       Ingestion     Rabbit       Inhalation- Dust/Mist (4 hours)     Rat       Ingestion     Rat       Dermal     Rabbit       Ingestion     Rat       Dermal     Rabbit       Ingestion     Rat       Dermal     Rabbit       Ingestion     similar compoun ds       Ingestion     Rat       Dermal     similar compoun ds       Inhalation- Dust/Mist (4 hours)     similar compoun ds       Ingestion     Rat       Dermal     Similar compoun ds

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Name	Species	Value
POLYETHER	Rabbit	No significant irritation
CRISTOBALITE	Professio	No significant irritation
	nal	
	judgeme	
	nt	
DIATOMACEOUS EARTH	Rabbit	No significant irritation
1-DODECYLIMIDAZOLE	Rabbit	Mild irritant
Mentha arvensis, ext.	Rabbit	Mild irritant

#### Serious Eye Damage/Irritation

Name	Species	Value
POLYETHER	Rabbit	Moderate irritant
DIATOMACEOUS EARTH	Rabbit	No significant irritation
1-DODECYLIMIDAZOLE	In vitro	Severe irritant
	data	
Mentha arvensis, ext.	In vitro	Severe irritant
	data	

#### **Skin Sensitization**

Name	Species	Value
POLYETHER	Guinea	Not sensitizing
	pig	
DIATOMACEOUS EARTH	Human	Not sensitizing
	and	
	animal	
1-DODECYLIMIDAZOLE	Mouse	Sensitizing
Mentha arvensis, ext.	Guinea	Sensitizing
	pig	

#### **Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

### Germ Cell Mutagenicity

Name	Route	Value
POLYETHER	In Vitro	Not mutagenic

#### **3MTM ESPETM IMPREGUMTM PENTATM SOFT QUICK STEP MEDIUM BODY BASE** 06/10/15

CRISTOBALITE	In Vitro	Some positive data exist, but the data are not sufficient for classification
CRISTOBALITE	In vivo	Some positive data exist, but the data are not sufficient for classification
DIATOMACEOUS EARTH	In Vitro	Not mutagenic
1-DODECYLIMIDAZOLE	In Vitro	Not mutagenic

#### Carcinogenicity

Name	Route	Species	Value
CRISTOBALITE	Inhalation	Human	Carcinogenic
		and	
		animal	
DIATOMACEOUS EARTH	Not	Mouse	Some positive data exist, but the data are not
	Specified		sufficient for classification

#### **Reproductive Toxicity**

#### **Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test Result	Exposure
					Duration
DIATOMACEOUS EARTH	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509	1 generation
				mg/kg/day	
DIATOMACEOUS EARTH	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497	1 generation
				mg/kg/day	
DIATOMACEOUS EARTH	Ingestion	Not toxic to development	Rat	NOAEL	during
	-	_		1,350	organogenesi
				mg/kg/day	s

#### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

For the component/components, either no data are currently available or the data are not sufficient for classification.

#### Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
CRISTOBALITE	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
DIATOMACEOUS EARTH	Inhalation	respiratory system   silicosis	All data are negative	Human	NOAEL Not available	occupational exposure

#### Aspiration Hazard

For the component/components, either no data are currently available or the data are not sufficient for classification.

# Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

### **SECTION 12: Ecological information**

#### **Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

#### **Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

### **SECTION 13: Disposal considerations**

#### 3MTM ESPETM IMPREGUMTM PENTATM SOFT QUICK STEP MEDIUM BODY BASE 06/10/15

#### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate uncured product in a permitted waste incineration facility. Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. If no other disposal options are available, waste product that has been completely cured or polymerized may be placed in a landfill properly designed for industrial waste.

#### EPA Hazardous Waste Number (RCRA): Not regulated

### **SECTION 14: Transport Information**

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

### **SECTION 15: Regulatory information**

#### **15.1. US Federal Regulations**

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

Ingredient	C.A.S. No	<u>% by Wt</u>
C.I. PIGMENT WHITE 5 (Barium compounds,	1345-05-7	< 2
except barium sulfate)		
C.I. PIGMENT WHITE 5 (ZINC	1345-05-7	< 2
COMPOUNDS)		

#### **15.2. State Regulations**

Contact 3M for more information.

#### **15.3.** Chemical Inventories

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

#### **15.4. International Regulations**

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### **SECTION 16: Other information**

#### **NFPA Hazard Classification**

Health: 2 Flammability: 1 Instability: 0 Special Hazards: None

#### 3M<sup>TM</sup> ESPE<sup>TM</sup> IMPREGUM<sup>TM</sup> PENTA<sup>TM</sup> SOFT QUICK STEP MEDIUM BODY BASE 06/10/15

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Document Group:	19-2468-7	Version Number:	5.00
Issue Date:	06/10/15	Supercedes Date:	05/29/15

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#### 3M USA SDSs are available at www.3M.com

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### Safety Data Sheet

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Document Group:	19-2469-5	Version Number:	3.00
Issue Date:	10/10/14	Supercedes Date:	12/11/12

### **SECTION 1: Identification**

#### 1.1. Product identifier

3MTM ESPETM IMPREGUMTM PENTATM SOFT QUICK STEP MEDIUM BODY CATALYST

**Product Identification Numbers** LE-F100-0141-5

#### 1.2. Recommended use and restrictions on use

Recommended use Dental Product, Impression Material Restrictions on use For use only by dental professionals

1.3. Supplier's details	
<b>MANUFACTURER:</b>	3M
<b>DIVISION:</b>	3M ESPE Dental Products
ADDRESS:	3M Center, St. Paul, MN 55144-1000, USA
Telephone:	1-888-3M HELPS (1-888-364-3577)

**1.4. Emergency telephone number** 

1-800-364-3577 or (651) 737-6501 (24 hours)

### **SECTION 2: Hazard identification**

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

#### 2.1. Hazard classification

Serious Eye Damage/Irritation: Category 2B.

2.2. Label elements Signal word Warning

Symbols Not applicable

#### Pictograms

Not applicable

#### **Hazard Statements**

Causes eye irritation.

#### **Precautionary Statements**

**Prevention:** Wash thoroughly after handling.

#### **Response:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

## **2.3. Hazards not otherwise classified** None.

### **SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt
CITRIC ESTER	77-90-7	35 - 50 Trade Secret *
SILANE TREATED SILICA	68909-20-6	20 - 30 Trade Secret *
SULFONIUM SALT	Trade Secret*	15 - 25 Trade Secret *
DIATOMACEOUS EARTH	68855-54-9	10 - 20 Trade Secret *
POLYETHYLENE-POLYPROPYLENE GLYCOL	9003-11-6	1 - 5 Trade Secret *

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

#### Skin Contact:

Wash with soap and water. If signs/symptoms develop, get medical attention.

#### Eye Contact:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

#### If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

#### 3MTM ESPETM IMPREGUMTM PENTATM SOFT QUICK STEP MEDIUM BODY CATALYST 10/10/14

### **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

#### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

#### Hazardous Decomposition or By-Products

Substance	<u>Condition</u>
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Irritant Vapors or Gases	During Combustion

#### 5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### **6.2.** Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Avoid eye contact. Avoid prolonged or repeated skin contact. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

#### 7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents.

### **SECTION 8: Exposure controls/personal protection**

#### **8.1.** Control parameters

#### **Occupational exposure limits**

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

#### **8.2. Exposure controls**

#### 8.2.1. Engineering controls

Use in a well-ventilated area.

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#### 8.2.2. Personal protective equipment (PPE)

#### **Eye/face protection**

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Safety Glasses with side shields

#### **Skin/hand protection**

See Section 7.1 for additional information on skin protection.

#### **Respiratory protection**

None required.

### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

General Physical Form:	Solid
Specific Physical Form:	Paste
Odor, Color, Grade:	slightly acrid odor, dark red color paste
Odor threshold	No Data Available
	No Data Available
pH Molting point	No Data Available No Data Available
Melting point	
Boiling Point	Not Applicable
Flash Point	Flash point > 93 °C (200 °F)
Evaporation rate	Not Applicable
Flammability (solid, gas)	Not Classified
Flammable Limits(LEL)	Not Applicable
Flammable Limits(UEL)	Not Applicable
Vapor Pressure	Not Applicable
Vapor Density	Not Applicable
Density	1.1 - 1.5 g/cm3
Specific Gravity	> 1 [ <i>Ref Std:</i> WATER=1]
Solubility in Water	Negligible
Solubility- non-water	No Data Available
Partition coefficient: n-octanol/ water	No Data Available
Autoignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Volatile Organic Compounds	Not Applicable
Percent volatile	Not Applicable
VOC Less H2O & Exempt Solvents	Not Applicable
· · · · · · · · · · · · · · · · · · ·	r r

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

#### 10.2. Chemical stability

Stable.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

**10.4. Conditions to avoid** Heat

**10.5. Incompatible materials** Strong acids Strong bases Strong oxidizing agents

None known.

10.6. Hazardous decomposition products <u>Substance</u>

Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

### **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure. The information below represents toxicological information associated with the individual components of the uncured product. Once properly mixed and/or cured, the product is safe for its intended use.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

This product may have a characteristic odor; however, no adverse health effects are anticipated.

#### **Skin Contact:**

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

#### **Eye Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### **Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

#### **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE > 5,000 mg/kg

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CITRIC ESTER	Ingestion	Rat	LD50 > 25,000 mg/kg
SILANE TREATED SILICA	Dermal	Rabbit	LD50 > 5,000 mg/kg
SILANE TREATED SILICA	Inhalation-	Rat	LC50 > 0.691 mg/l
	Dust/Mist		
	(4 hours)		
SILANE TREATED SILICA	Ingestion	Rat	LD50 > 5,110 mg/kg
SULFONIUM SALT	Ingestion	Rat	LD50 > 2,000 mg/kg
DIATOMACEOUS EARTH	Dermal	Rabbit	LD50 > 5,000 mg/kg
DIATOMACEOUS EARTH	Inhalation-	Rat	LC50 > 0.691 mg/l
	Dust/Mist		
	(4 hours)		
DIATOMACEOUS EARTH	Ingestion	Rat	LD50 > 5,110 mg/kg
POLYETHYLENE-POLYPROPYLENE GLYCOL	Ingestion	Rat	LD50 5,700 mg/kg

ATE = acute toxicity estimate

#### **Skin Corrosion/Irritation**

Name	Species	Value
SILANE TREATED SILICA	Rabbit	No significant irritation
SULFONIUM SALT	Rabbit	Mild irritant
DIATOMACEOUS EARTH	Rabbit	No significant irritation

### Serious Eye Damage/Irritation

Name	Species	Value
SILANE TREATED SILICA	Rabbit	No significant irritation
SULFONIUM SALT	similar	Moderate irritant
	health	
	hazards	
DIATOMACEOUS EARTH	Rabbit	No significant irritation

#### **Skin Sensitization**

Name	Species	Value
SILANE TREATED SILICA	Human	Not sensitizing
	and	
	animal	
DIATOMACEOUS EARTH	Human	Not sensitizing
	and	
	animal	

#### **Respiratory Sensitization**

Name

#### Species Value

#### Germ Cell Mutagenicity

Name	Route	Value
SILANE TREATED SILICA	In Vitro	Not mutagenic
SULFONIUM SALT	In Vitro	Not mutagenic
DIATOMACEOUS EARTH	In Vitro	Not mutagenic

#### Carcinogenicity

Name	Route	Species	Value
SILANE TREATED SILICA	Not	Mouse	Some positive data exist, but the data are not
	Specified		sufficient for classification
DIATOMACEOUS EARTH	Not	Mouse	Some positive data exist, but the data are not
	Specified		sufficient for classification

#### **Reproductive Toxicity**

#### **Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test Result	Exposure Duration
SILANE TREATED SILICA	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
SILANE TREATED SILICA	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation

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SILANE TREATED SILICA	Ingestion	Not toxic to development	Rat	NOAEL 1,350 mg/kg/day	during organogenesi s
DIATOMACEOUS EARTH	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
DIATOMACEOUS EARTH	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
DIATOMACEOUS EARTH	Ingestion	Not toxic to development	Rat	NOAEL 1,350 mg/kg/day	during organogenesi s

#### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
SULFONIUM SALT	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Rat	LOAEL 2,000 mg/kg	not applicable

#### Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
SILANE TREATED SILICA	Inhalation	respiratory system   silicosis	All data are negative	Human	NOAEL Not available	occupational exposure
DIATOMACEOUS EARTH	Inhalation	respiratory system   silicosis	All data are negative	Human	NOAEL Not available	occupational exposure

#### Aspiration Hazard

Name

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

Value

### **SECTION 12: Ecological information**

#### **Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

### **Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

### **SECTION 13: Disposal considerations**

#### **13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility.

EPA Hazardous Waste Number (RCRA): Not regulated

### **SECTION 14: Transport Information**

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

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### **SECTION 15: Regulatory information**

#### **15.1. US Federal Regulations**

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

#### **15.2. State Regulations**

Contact 3M for more information.

#### **15.3.** Chemical Inventories

The components of this product are in compliance with the new substance notification requirements of CEPA.

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

#### **15.4. International Regulations**

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### **SECTION 16: Other information**

#### **NFPA Hazard Classification**

Health: 1 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Document Group:	19-2469-5	Version Number:	3.00
Issue Date:	10/10/14	Supercedes Date:	12/11/12

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### **Safety Data Sheet**

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Document Group:	16-2740-5	Version Number:	15.00
Issue Date:	07/29/19	Supercedes Date:	05/29/19

### **SECTION 1: Identification**

1.1. Product identifier

3M<sup>™</sup> ESPE<sup>™</sup> Impregum<sup>™</sup> Penta<sup>™</sup> Soft Base Paste

**Product Identification Numbers** LE-FSFD-3173-1. 41-8650-1192-2 4010029023

#### 1.2. Recommended use and restrictions on use

**Recommended use** Dental Product, Impression material **Restrictions on use** For use only by dental professionals

1.3. Supplier's details	
MANUFACTURER:	3M
<b>DIVISION:</b>	Oral Care Solutions Division
ADDRESS:	3M Center, St. Paul, MN 55144-1000, USA
Telephone:	1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number 1-800-364-3577 or (651) 737-6501 (24 hours)

## **SECTION 2: Hazard identification**

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

### 2.1. Hazard classification

Skin Sensitizer: Category 1A.

2.2. Label elements Signal word Warning

Symbols

Exclamation mark |

#### Pictograms



Hazard Statements May cause an allergic skin reaction.

#### **Precautionary Statements**

#### **Prevention:**

Wear protective gloves. Contaminated work clothing must not be allowed out of the workplace.

#### **Response:**

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

#### Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

### **SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt
Polyether	110531-92-5	40 - 60 Trade Secret *
FATTY ACID TRIGLYCERIDES	67701-27-3	10 - 30 Trade Secret *
POLYMERIC ACETATE	91825-26-2	1 - 20 Trade Secret *
DIBENZYL TOLUENE	26898-17-9	1 - 10 Trade Secret *
Flux calcined diatomaceous earth (cristobalite $1 - <10\%$ )	68855-54-9	1 - 10 Trade Secret *
1-DODECYLIMIDAZOLE	4303-67-7	< 1 Trade Secret *
Oils, mint, Mentha arvensis piperascenssis, var.	68917-18-0	< 0.5 Trade Secret *
piperascens, Labiatae.		

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

#### **Skin Contact:**

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

#### Eye Contact:

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No need for first aid is anticipated.

#### If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

## 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

### **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

#### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

#### Hazardous Decomposition or By-Products

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Irritant Vapors or Gases	During Combustion

5.3. Special protective actions for fire-fighters Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Do not get in eyes. A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove.

#### 7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents.

### **SECTION 8: Exposure controls/personal protection**

#### **8.1.** Control parameters

#### **Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
Cristobalite	68855-54-9	ACGIH	TWA(respirable	A2: Suspected human
			fraction):0.025 mg/m3	carcin.
Cristobalite	68855-54-9	OSHA	TWA concentration(respirable):0.05 mg/m3(1.2 millions of particles/cu. ft.);TWA:0.05 mg/m3	
SILICA, AMORPHOUS	68855-54-9	OSHA	TWA concentration:0.8 mg/m3;TWA:20 millions of particles/cu. ft.	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

#### **8.2.** Exposure controls

#### 8.2.1. Engineering controls

Use in a well-ventilated area.

#### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Safety Glasses with side shields

#### Skin/hand protection

See Section 7.1 for additional information on skin protection.

## Respiratory protection

None required.

### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Appearance Physical state Color

Solid Multicolor

Specific Physical Form:	Paste
Odor 5	Minty
Odor threshold	No Data Available
рН	No Data Available
Melting point	No Data Available
Boiling Point	Not Applicable
Flash Point	Flash point $> 93 \text{ °C} (200 \text{ °F})$
Evaporation rate	Not Applicable
Flammability (solid, gas)	Not Classified
Flammable Limits(LEL)	Not Applicable
Flammable Limits(UEL)	Not Applicable
Vapor Pressure	Not Applicable
Vapor Density	Not Applicable
Density	No Data Available
Specific Gravity	1.0 - 1.2 [ <i>Ref Std</i> :WATER=1]
Solubility in Water	Nil
Solubility- non-water	No Data Available
Partition coefficient: n-octanol/ water	No Data Available
Autoignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Volatile Organic Compounds	Not Applicable
Percent volatile	Not Applicable
VOC Less H2O & Exempt Solvents	Not Applicable

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

#### 10.2. Chemical stability

Stable.

#### **10.3. Possibility of hazardous reactions** Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat

### 10.5. Incompatible materials

Strong acids Strong bases Strong oxidizing agents

#### 10.6. Hazardous decomposition products

Substance None known. **Condition** 

Refer to section 5.2 for hazardous decomposition products during combustion.

### **SECTION 11: Toxicological information**

<b>3M<sup>TM</sup> ESPE<sup>TM</sup></b> Impregum <sup>TM</sup> Penta <sup>TM</sup> Soft Base Paste	07/29/19
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The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure. The information below represents toxicological information associated with the individual components of the uncured product. Once properly mixed and/or cured, the product is safe for its intended use.

#### 11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

#### Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

This product may have a characteristic odor; however, no adverse health effects are anticipated.

#### Skin Contact:

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### **Eye Contact:**

Contact with the eyes during product use is not expected to result in significant irritation.

#### **Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

#### **Additional Health Effects:**

#### **Carcinogenicity:**

Exposures needed to cause the following health effect(s) are not expected during normal, intended use: Contains a chemical or chemicals which can cause cancer.

Ingredient	CAS No.	Class Description	Regulation
SILICA, CRYS AIRRESP	68855-54-9	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
SILICA, CRYS AIRRESP	68855-54-9	Known human carcinogen	National Toxicology Program Carcinogens
Generic: Cristobalite	68855-54-9	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer

#### **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Polyether	Dermal	Professio nal judgeme nt	LD50 Not applicable
Polyether	Ingestion	Rat	LD50 > 2,000 mg/kg
FATTY ACID TRIGLYCERIDES	Dermal	Rabbit	LD50 > 2,000 mg/kg
FATTY ACID TRIGLYCERIDES	Ingestion	Rat	LD50 > 2,000 mg/kg
POLYMERIC ACETATE	Dermal	Professio	LD50 estimated to be > 5,000 mg/kg

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		nal judgeme nt	
POLYMERIC ACETATE	Ingestion	Rat	LD50 > 2,000 mg/kg
DIBENZYL TOLUENE	Dermal	Rabbit	LD50 > 2,000 mg/kg
DIBENZYL TOLUENE	Ingestion	Rat	LD50 > 10,360 mg/kg
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 2.7 mg/l
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Ingestion	Rat	LD50 > 2,000 mg/kg
1-DODECYLIMIDAZOLE	Ingestion	Rat	LD50 641 mg/kg
Oils, mint, Mentha arvensis piperascenssis, var. piperascens, Labiatae.	Dermal	Rabbit	LD50 > 5,000 mg/kg
Oils, mint, Mentha arvensis piperascenssis, var. piperascens, Labiatae.	Ingestion	Rat	LD50 1,240 mg/kg

ATE = acute toxicity estimate

#### **Skin Corrosion/Irritation**

Name	Species	Value
Polyether	Rabbit	No significant irritation
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	In vitro	No significant irritation
	data	
1-DODECYLIMIDAZOLE	Rabbit	Mild irritant
Oils, mint, Mentha arvensis piperascenssis, var. piperascens, Labiatae.	Rabbit	Mild irritant

#### Serious Eye Damage/Irritation

Name	Species	Value
Overall product	In vitro	No significant irritation
	data	
Polyether	Rabbit	Moderate irritant
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Rabbit	Mild irritant
1-DODECYLIMIDAZOLE	In vitro	Severe irritant
	data	
Oils, mint, Mentha arvensis piperascenssis, var. piperascens, Labiatae.	In vitro	Severe irritant
	data	

#### **Skin Sensitization**

Name	Species	Value
Polyether	Guinea	Not classified
	pig	
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Mouse	Not classified
1-DODECYLIMIDAZOLE	Mouse	Sensitizing
Oils, mint, Mentha arvensis piperascenssis, var. piperascens, Labiatae.	Guinea	Sensitizing
	pig	

#### **Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

#### Germ Cell Mutagenicity

Name	Route	Value
Polyether	In Vitro	Not mutagenic
POLYMERIC ACETATE	In Vitro	Not mutagenic
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	In Vitro	Some positive data exist, but the data are not
		sufficient for classification
1-DODECYLIMIDAZOLE	In Vitro	Not mutagenic

#### Carcinogenicity

Name	Route	Species	Value
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Inhalation	Human	Carcinogenic
		and	
		animal	

#### **Reproductive Toxicity**

#### **Reproductive and/or Developmental Effects**

For the component/components, either no data are currently available or the data are not sufficient for classification.

#### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

For the component/components, either no data are currently available or the data are not sufficient for classification.

#### Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Ingestion	hematopoietic system   eyes   kidney and/or bladder	Not classified	Rat	NOAEL 3,738 mg/kg/day	90 days

#### Aspiration Hazard

For the component/components, either no data are currently available or the data are not sufficient for classification.

## Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

### **SECTION 12: Ecological information**

#### **Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

#### **Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

### **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility.

#### EPA Hazardous Waste Number (RCRA): D005 (Barium)

### **SECTION 14: Transport Information**

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

### **SECTION 15: Regulatory information**

#### **15.1. US Federal Regulations**

Contact 3M for more information.

#### **EPCRA 311/312 Hazard Classifications:**

Physical Hazards

## Not applicable

#### Health Hazards

Respiratory or Skin Sensitization

#### **15.2. State Regulations**

Contact 3M for more information.

#### **15.3.** Chemical Inventories

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

#### **15.4. International Regulations**

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### **SECTION 16: Other information**

#### NFPA Hazard Classification

Health: 2 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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#### **3MTM ESPETM** Impregum<sup>TM</sup> Penta<sup>TM</sup> Soft Base Paste 07/29/19

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Document Group:	16-2742-1	Version Number:	10.00
Issue Date:	01/08/19	Supercedes Date:	01/18/18

### **SECTION 1: Identification**

1.1. Product identifier

3M<sup>™</sup> Impregum<sup>™</sup> Penta<sup>™</sup> Soft Catalyst

**Product Identification Numbers** CA-ESPE-3173-1, LE-FSFD-3173-8, 41-8650-1184-9 4010029020

#### 1.2. Recommended use and restrictions on use

Recommended use Dental Product, Impression Material Restrictions on use For use only by dental professionals in approved indications.

1.3. Supplier's details		
<b>MANUFACTURER:</b>	3M	
DIVISION:	Oral Care Solutions Divisi	ion
ADDRESS:	3M Center, St. Paul, MN	55144-1000, USA
Telephone:	1-888-3M HELPS (1-888-	-364-3577)

**1.4. Emergency telephone number** 1-800-364-3577 or (651) 737-6501 (24 hours)

## **SECTION 2: Hazard identification**

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

#### 2.1. Hazard classification

Skin Sensitizer: Category 1B. Reproductive Toxicity: Category 2. Specific Target Organ Toxicity (repeated exposure): Category 1.

2.2. Label elements Signal word Danger

Symbols Exclamation mark | Health Hazard |

#### **Pictograms**



Hazard Statements May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child.

Causes damage to organs through prolonged or repeated ingestion exposure: blood or blood-forming organs

May cause damage to organs through prolonged or repeated ingestion exposure: respiratory system | sensory organs |

#### **Precautionary Statements**

#### **Prevention:**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

#### **Response:**

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. IF exposed or concerned: Get medical advice/attention.

#### **Disposal:**

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

### **SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt
CITRIC ESTER	77-90-7	30 - 50 Trade Secret *
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	68855-54-9	10 - 30 Trade Secret *
SILANE TREATED SILICA	68909-20-6	10 - 30 Trade Secret *
SULFONIUM SALT	72140-65-9	10 - 30 Trade Secret *
POLYETHYLENE-POLYPROPYLENE GLYCOL	9003-11-6	1 - 10 Trade Secret *

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

#### **Skin Contact:**

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

#### **Eye Contact:**

No need for first aid is anticipated.

#### If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

#### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

### **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

#### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

#### Hazardous Decomposition or By-Products

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Irritant Vapors or Gases	During Combustion

#### 5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### **6.2.** Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate

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authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Do not get in eyes. Use personal protective equipment (gloves, respirators, etc.) as required. A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove.

#### 7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
Cristobalite	68855-54-9	ACGIH	TWA(respirable	A2: Suspected human
			fraction):0.025 mg/m3	carcin.
Cristobalite	68855-54-9	OSHA	TWA	
			concentration(respirable):0.05	
			mg/m3(1.2 millions of	
			particles/cu. ft.);TWA:0.05	
			mg/m3	
SILICA, AMORPHOUS	68855-54-9	OSHA	TWA concentration:0.8	
			mg/m3;TWA:20 millions of	
			particles/cu. ft.	
SILICA, AMORPHOUS	68909-20-6	OSHA	TWA concentration:0.8	
			mg/m3;TWA:20 millions of	
			particles/cu. ft.	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

#### **8.2. Exposure controls**

#### 8.2.1. Engineering controls

Use in a well-ventilated area.

#### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Safety Glasses with side shields

#### Skin/hand protection

See Section 7.1 for additional information on skin protection.

#### **Respiratory protection**

None required.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Specific Physical Form: Odor, Color, Grade: Odor threshold pH Melting point	Paste Dark red color, slightly acrid odor No Data Available No Data Available No Data Available
Odor threshold pH	No Data Available No Data Available
рН	No Data Available
Melting point	No Data Available
Boiling Point	Not Applicable
Flash Point	Flash point $> 93 \text{ °C} (200 \text{ °F})$
Evaporation rate	Not Applicable
Flammability (solid, gas)	Not Classified
Flammable Limits(LEL)	Not Applicable
Flammable Limits(UEL)	Not Applicable
Vapor Pressure	Not Applicable
Vapor Density	Not Applicable
Density	No Data Available
Specific Gravity	1.1 - 1.4 [ <i>Ref Std</i> :WATER=1]
Solubility in Water	Negligible
Solubility- non-water	No Data Available
Partition coefficient: n-octanol/ water	No Data Available
Autoignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Volatile Organic Compounds	Not Applicable
Percent volatile	Not Applicable
VOC Less H2O & Exempt Solvents	Not Applicable

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Heat

#### **10.5. Incompatible materials**

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Strong acids Strong bases Strong oxidizing agents

# 10.6. Hazardous decomposition products

Substance

None known.

**Condition** 

Refer to section 5.2 for hazardous decomposition products during combustion.

# **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure. The information below represents toxicological information associated with the individual components of the uncured product. Once properly mixed and/or cured, the product is safe for its intended use.

#### 11.1. Information on Toxicological effects

### Signs and Symptoms of Exposure

### Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

This product may have a characteristic odor; however, no adverse health effects are anticipated.

#### **Skin Contact:**

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

# **Eye Contact:**

Contact with the eyes during product use is not expected to result in significant irritation.

#### **Ingestion:**

May be harmful if swallowed.

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause additional health effects (see below).

### **Additional Health Effects:**

#### Prolonged or repeated exposure may cause target organ effects:

Ocular Effects: Signs/symptoms may include blurred or significantly impaired vision.

Bone Marrow Effects: Signs/symptoms may include generalized weakness, pallor of the skin, fatty infiltration of the bone marrow, decreases in the numbers of circulating blood cells, increased susceptibility to infection.

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart

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rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

#### **Reproductive/Developmental Toxicity:**

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

# Carcinogenicity:

Exposures needed to cause the following health effect(s) are not expected during normal, intended use:

Contains a chemical or chemicals which can cause cancer.

Ingredient	CAS No.	Class Description	Regulation
SILICA, CRYS AIRRESP	68855-54-9	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
SILICA, CRYS AIRRESP	68855-54-9	Known human carcinogen	National Toxicology Program Carcinogens
Generic: Cristobalite	68855-54-9	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer

#### **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### **Acute Toxicity**

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE2,000 - 5,000 mg/kg
CITRIC ESTER	Dermal	Professio	LD50 estimated to be $> 5,000 \text{ mg/kg}$
		nal	, , ,
		judgeme	
		nt	
CITRIC ESTER	Ingestion	Rat	LD50 > 25,000 mg/kg
SILANE TREATED SILICA	Dermal	Rabbit	LD50 > 5,000 mg/kg
SILANE TREATED SILICA	Inhalation-	Rat	LC50 > 0.691 mg/l
	Dust/Mist		-
	(4 hours)		
SILANE TREATED SILICA	Ingestion	Rat	LD50 > 5,110 mg/kg
SULFONIUM SALT	Dermal	Rat	LD50 > 2,000 mg/kg
SULFONIUM SALT	Ingestion	Rat	LD50 300-2,000 mg/kg
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Dermal	Professio	LD50 estimated to be > 5,000 mg/kg
		nal	
		judgeme	
		nt	
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Inhalation-	Rat	LC50 > 2.7  mg/l
	Dust/Mist		
	(4 hours)		
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Ingestion	Rat	LD50 > 2,000 mg/kg
POLYETHYLENE-POLYPROPYLENE GLYCOL	Dermal	Professio	LD50 estimated to be > 5,000 mg/kg
		nal	
		judgeme	
		nt	
POLYETHYLENE-POLYPROPYLENE GLYCOL	Ingestion	Rat	LD50 5,700 mg/kg

ATE = acute toxicity estimate

#### **Skin Corrosion/Irritation**

Name	Species	Value
SILANE TREATED SILICA	Rabbit	No significant irritation
SULFONIUM SALT	Rabbit	Mild irritant
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	In vitro	No significant irritation
	data	

# Serious Eye Damage/Irritation

Name	Species	Value
SILANE TREATED SILICA	Rabbit	No significant irritation
SULFONIUM SALT	Rabbit	Mild irritant

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Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Rabbit	Mild irritant
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### Skin Sensitization

Name	Species	Value
SILANE TREATED SILICA	Human	Not classified
	and	
	animal	
SULFONIUM SALT	Mouse	Sensitizing
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Mouse	Not classified

### **Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

# Germ Cell Mutagenicity

Name	Route	Value
SILANE TREATED SILICA	In Vitro	Not mutagenic
SULFONIUM SALT	In Vitro	Not mutagenic
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	In Vitro	Some positive data exist, but the data are not
		sufficient for classification

# Carcinogenicity

Name	Route	Species	Value
SILANE TREATED SILICA	Not	Mouse	Some positive data exist, but the data are not
	Specified		sufficient for classification
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Inhalation	Human	Carcinogenic
		and	-
		animal	

# **Reproductive Toxicity**

### **Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test Result	Exposure Duration
SILANE TREATED SILICA	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
SILANE TREATED SILICA	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
SILANE TREATED SILICA	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesi s
SULFONIUM SALT	Ingestion	Not classified for development	Rat	NOAEL 100 mg/kg/day	premating into lactation
SULFONIUM SALT	Ingestion	Toxic to female reproduction	Rat	NOAEL 30 mg/kg/day	premating into lactation
SULFONIUM SALT	Ingestion	Toxic to male reproduction	Rat	NOAEL 30 mg/kg/day	30 days

# Target Organ(s)

# Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
SULFONIUM SALT	Ingestion	respiratory system	Not classified	Rat	NOAEL 300 mg/kg	

#### Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
SILANE TREATED	Inhalation	respiratory system	Not classified	Human	NOAEL Not	occupational
SILICA		silicosis			available	exposure
SULFONIUM SALT	Ingestion	bone marrow	Causes damage to organs through	Rat	NOAEL 10	30 days

#### **3M<sup>™</sup> Impregum<sup>™</sup> Penta<sup>™</sup> Soft Catalyst** 01/08/19

			prolonged or repeated exposure		mg/kg/day	
SULFONIUM SALT	Ingestion	respiratory system	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 30 mg/kg/day	30 days
SULFONIUM SALT	Ingestion	eyes	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 100 mg/kg/day	30 days
SULFONIUM SALT	Ingestion	hematopoietic system   liver   immune system   kidney and/or bladder	Not classified	Rat	NOAEL 300 mg/kg/day	30 days
SULFONIUM SALT	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 30 mg/kg/day	30 days
SULFONIUM SALT	Ingestion	auditory system   heart   skin   endocrine system   bone, teeth, nails, and/or hair   muscles   nervous system   vascular system	Not classified	Rat	NOAEL 300 mg/kg/day	30 days
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Ingestion	hematopoietic system   eyes   kidney and/or bladder	Not classified	Rat	NOAEL 3,738 mg/kg/day	90 days

#### **Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

# Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

# **SECTION 12: Ecological information**

### **Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

#### **Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

# **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

#### EPA Hazardous Waste Number (RCRA): Not regulated

# **SECTION 14: Transport Information**

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

# **SECTION 15: Regulatory information**

### **15.1. US Federal Regulations**

Contact 3M for more information.

# EPCRA 311/312 Hazard Classifications:

Physical Hazards

Not	app	lica	blo	е
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# Health Hazards

Reproductive toxicity

Respiratory or Skin Sensitization

Specific target organ toxicity (single or repeated exposure)

# **15.2. State Regulations**

Contact 3M for more information.

### **15.3.** Chemical Inventories

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

### **15.4. International Regulations**

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# **SECTION 16: Other information**

#### NFPA Hazard Classification

Health: 2 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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Issue Date:	07/06/17	Supercedes Date:	02/25/16

# **SECTION 1: Identification**

### 1.1. Product identifier

IMPREGUM GARANT L DUOSOFT/ IMPREGUM GARANT SOFT LB CATALYST

**Product Identification Numbers** LE-FSFD-6306-1

### **1.2. Recommended use and restrictions on use**

Recommended use Dental Product, Impression Restrictions on use For use only by dental professionals

1.3. Supplier's details	
<b>MANUFACTURER:</b>	3M
<b>DIVISION:</b>	Oral Care Solutions Division
ADDRESS:	3M Center, St. Paul, MN 55144-1000, USA
Telephone:	1-888-3M HELPS (1-888-364-3577)

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

# **SECTION 2: Hazard identification**

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

### 2.1. Hazard classification

Skin Sensitizer: Category 1B.

2.2. Label elements Signal word Warning

Symbols

Exclamation mark |

#### **Pictograms**



Hazard Statements May cause an allergic skin reaction.

#### **Precautionary Statements**

#### **Prevention:**

Wear protective gloves. Contaminated work clothing must not be allowed out of the workplace.

#### **Response:**

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

#### **Disposal:**

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

### 2.3. Hazards not otherwise classified

# **SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt
POLYMERIC ACETATE	91825-26-2	25 - 35 Trade Secret *
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	68855-54-9	20 - 30 Trade Secret *
CITRIC ESTER	77-90-7	10 - 20 Trade Secret *
SULFONIUM SALT	72140-65-9	10 - 19 Trade Secret *
DIBENZYL TOLUENE	26898-17-9	1 - 10 Trade Secret *
SILANE TREATEAD SILICA	68909-20-6	1 - 10 Trade Secret *
FATTY ACIDS TRIGLYCERIDES	67701-27-3	1 - 5 Trade Secret *
POLYETHYLENE-POLYPROPYLENE GLYCOL	9003-11-6	1 - 5 Trade Secret *

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

### Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

#### **Eye Contact:**

No need for first aid is anticipated.

#### If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

#### **4.3. Indication of any immediate medical attention and special treatment required** Not applicable

# **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

# 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

#### Hazardous Decomposition or By-Products

<u>Substance</u> Carbon monoxide Carbon dioxide Irritant Vapors or Gases <u>Condition</u> During Combustion During Combustion During Combustion

#### **5.3.** Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

# **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

# **6.2.** Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Do not get in eyes. A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove.

### 7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents. Store away from amines.

# **SECTION 8: Exposure controls/personal protection**

#### **8.1.** Control parameters

#### **Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
Cristobalite	68855-54-9	ACGIH	TWA(respirable	A2: Suspected human
			fraction):0.025 mg/m3	carcin.
SILICA, AMORPHOUS	68855-54-9	OSHA	TWA concentration:0.8	
			mg/m3;TWA:20 millions of	
			particles/cu. ft.	
Cristobalite	68855-54-9	OSHA	TWA	
			concentration(respirable):0.05	
			mg/m3(1.2 millions of	
			particles/cu. ft.);TWA:0.05	
			mg/m3	
SILICA, AMORPHOUS	68909-20-6	OSHA	TWA concentration:0.8	
			mg/m3;TWA:20 millions of	
			particles/cu. ft.	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use in a well-ventilated area.

### 8.2.2. Personal protective equipment (PPE)

### **Eye/face protection**

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Safety Glasses with side shields

### Skin/hand protection

See Section 7.1 for additional information on skin protection.

# **Respiratory protection**

None required.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

**General Physical Form:** 

Solid

Paste slightly characteristic odor, red colored pastes No Data Available Not Applicable No Data Available Not Applicable Flash point > 93 °C (200 °F) Not Applicable Not Classified Not Applicable Not Applicable No Data Available No Data Available 1.1 g/cm3 - 1.2 g/cm3 1.1 - 1.2 [*Ref Std*:WATER=1] Negligible No Data Available No Data Available Not Applicable No Data Available No Data Available No Data Available Not Applicable Not Applicable

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

Not Applicable

### 10.2. Chemical stability

**Specific Physical Form:** 

**Odor, Color, Grade:** 

**Odor threshold** 

Melting point

**Boiling Point** 

**Evaporation rate** 

Vapor Pressure

**Specific Gravity** 

Solubility in Water

Molecular weight

**Percent volatile** 

Solubility- non-water

Autoignition temperature

**Decomposition temperature** 

**Volatile Organic Compounds** 

**VOC Less H2O & Exempt Solvents** 

Partition coefficient: n-octanol/ water

Vapor Density

Density

Viscosity

Flammability (solid, gas)

Flammable Limits(LEL)

Flammable Limits(UEL)

**Flash Point** 

pН

Stable.

# 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

**10.4. Conditions to avoid** Heat

### **10.5.** Incompatible materials

Amines Strong acids Strong bases Strong oxidizing agents

### 10.6. Hazardous decomposition products

Substance None known. **Condition** 

Refer to section 5.2 for hazardous decomposition products during combustion.

# **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

This product may have a characteristic odor; however, no adverse health effects are anticipated.

#### **Skin Contact:**

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### Eye Contact:

Contact with the eyes during product use is not expected to result in significant irritation.

#### **Ingestion:**

May be harmful if swallowed.

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

#### **Additional Health Effects:**

#### **Carcinogenicity:**

Exposures needed to cause the following health effect(s) are not expected during normal, intended use: Contains a chemical or chemicals which can cause cancer.

Ingredient	CAS No.	Class Description	Regulation
SILICA, CRYS AIRRESP	68855-54-9	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
SILICA, CRYS AIRRESP	68855-54-9	Known human carcinogen	National Toxicology Program Carcinogens
Generic: Cristobalite	68855-54-9	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer

#### **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE2,000 - 5,000 mg/kg
POLYMERIC ACETATE	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
POLYMERIC ACETATE	Ingestion	Rat	LD50 > 2,000 mg/kg
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Dermal	Professio	LD50 estimated to be > 5,000 mg/kg
		nal	

		judgeme nt	
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 2.7 mg/l
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Ingestion	Rat	LD50 > 2,000 mg/kg
CITRIC ESTER	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
CITRIC ESTER	Ingestion	Rat	LD50 > 25,000 mg/kg
SULFONIUM SALT	Dermal	Rat	LD50 > 2,000 mg/kg
SULFONIUM SALT	Ingestion	Rat	LD50 300-2000 mg/kg
DIBENZYL TOLUENE	Dermal	Rabbit	LD50 > 2,000 mg/kg
DIBENZYL TOLUENE	Ingestion	Rat	LD50 > 10,360 mg/kg
SILANE TREATEAD SILICA	Dermal	Rabbit	LD50 > 5,000 mg/kg
SILANE TREATEAD SILICA	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
SILANE TREATEAD SILICA	Ingestion	Rat	LD50 > 5,110 mg/kg
POLYETHYLENE-POLYPROPYLENE GLYCOL	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
POLYETHYLENE-POLYPROPYLENE GLYCOL	Ingestion	Rat	LD50 5,700 mg/kg
FATTY ACIDS TRIGLYCERIDES	Dermal	Rabbit	LD50 > 2,000 mg/kg
FATTY ACIDS TRIGLYCERIDES	Ingestion	Rat	LD50 > 2,000 mg/kg
ATE – acute toxicity estimate			

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Name	Species	Value
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	In vitro data	No significant irritation
SULFONIUM SALT	Rabbit	Mild irritant
SILANE TREATEAD SILICA	Rabbit	No significant irritation

### Serious Eye Damage/Irritation

Name	Species	Value
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Rabbit	Mild irritant
SULFONIUM SALT	Rabbit	No significant irritation
SILANE TREATEAD SILICA	Rabbit	No significant irritation

#### **Skin Sensitization**

Name	Species	Value
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Mouse	Not classified
SULFONIUM SALT	Mouse	Sensitizing
SILANE TREATEAD SILICA	Human	Not classified
	and	
	animal	

# **Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

# Germ Cell Mutagenicity

Name	Route	Value
POLYMERIC ACETATE	In Vitro	Not mutagenic
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	In Vitro	Some positive data exist, but the data are not
		sufficient for classification
SULFONIUM SALT	In Vitro	Not mutagenic
SILANE TREATEAD SILICA	In Vitro	Not mutagenic

#### 07/06/17

#### Carcinogenicity

Name	Route	Species	Value
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Inhalation	Human	Carcinogenic
		and	
		animal	
SILANE TREATEAD SILICA	Not	Mouse	Some positive data exist, but the data are not
	Specified		sufficient for classification

### **Reproductive Toxicity**

### **Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test Result	Exposure Duration
SILANE TREATEAD SILICA	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
SILANE TREATEAD SILICA	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
SILANE TREATEAD SILICA	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesi s

### Target Organ(s)

# Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
SULFONIUM SALT	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Rat	LOAEL 2,000 mg/kg	
SULFONIUM SALT	Ingestion	respiratory system	Not classified	Rat	NOAEL 300 mg/kg	

#### Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Ingestion	hematopoietic system   eyes   kidney and/or bladder	Not classified	Rat	NOAEL 3,738 mg/kg/day	90 days
SILANE TREATEAD SILICA	Inhalation	respiratory system   silicosis	Not classified	Human	NOAEL Not available	occupational exposure

#### **Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

# Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

# **SECTION 12: Ecological information**

# **Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

# **Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

# **SECTION 13: Disposal considerations**

#### **13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility.

### EPA Hazardous Waste Number (RCRA): Not regulated

# **SECTION 14: Transport Information**

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

# **SECTION 15: Regulatory information**

# **15.1. US Federal Regulations**

Contact 3M for more information.

### 311/312 Hazard Categories:

Fire Hazard - No	Pressure Hazard - No	Reactivity Hazard - No	Immediate Hazard - Yes	Delayed Hazard -
No				

### EPCRA 311/312 Hazard Classifications (effective January 1, 2018):

#### Physical Hazards

Not applicable

# Health Hazards

Respiratory or Skin Sensitization

#### 15.2. State Regulations

Contact 3M for more information.

#### **15.3.** Chemical Inventories

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

#### **15.4. International Regulations**

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# **SECTION 16: Other information**

#### **NFPA Hazard Classification**

Health: 2 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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