

SAFETY DATA SHEETS

This SDS packet was issued with item:

071041615

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

071041599 071041623 071194455



Safety Data Sheet

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| | | | |
|------------------------|-----------|-------------------------|---------------|
| Document Group: | 43-4213-5 | Version Number: | 1.00 |
| Issue Date: | 03/30/22 | Supersedes Date: | Initial Issue |

Product identifier

3M™ 69385 Impregum™ Penta™ Super Quick Medium Body Refill

ID Number(s):

UU-0098-0606-6

7100196372

Recommended use

Dental Product, Impression Material

Restrictions on use

For use only by dental professionals in approved indications.

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) |

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:

37-9020-1, 43-2865-4

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| | | | |
|------------------------|-----------|-------------------------|----------|
| Document Group: | 37-9020-1 | Version Number: | 5.00 |
| Issue Date: | 04/08/22 | Supersedes Date: | 03/10/22 |

SECTION 1: Identification

1.1. Product identifier

3M™ Impregum™ Penta™ Super Quick MB Ctalyst

Product Identification Numbers

LE-F100-2234-5

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

| | |
|----------------------|---|
| 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

Skin Corrosion/Irritation: Category 2.

Skin Sensitizer: Category 1A.

2.2. Label elements

Signal word

Warning

Symbols

Exclamation mark |

Pictograms



Hazard Statements

Causes skin 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 ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Disposal:

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

10% of the mixture consists of ingredients of unknown acute oral toxicity.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|--|--------------|------------------------|
| Sulfonium, [2-carboxy-1-(carboxymethyl)ethyl]dodecylethyl-, mixed Me and pentyl diesters, tetrafluoroborates | 2220260-54-6 | 20 - 40 Trade Secret * |
| POLYETHYLENE-POLYPROPYLENE GLYCOL | 9003-11-6 | 10 - 30 Trade Secret * |
| SILANE TREATED SILICA | 68909-20-6 | 10 - 30 Trade Secret * |
| DIATOMACEOUS EARTH | 68855-54-9 | 10 - 20 Trade Secret * |
| PLASTICIZER | 82469-79-2 | 1 - 10 Trade Secret * |
| POLY(TETRAMETHYLENE ETHER) | 25190-06-1 | < 5 Trade Secret * |
| TITANIUM DIOXIDE | 13463-67-7 | < 1 Trade Secret * |
| 2,6-DI-TERT-BUTYL-P-CRESOL | 128-37-0 | < 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

Allergic skin reaction (redness, swelling, blistering, and itching).

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**

Carbon monoxide
Carbon dioxide
Irritant Vapors or Gases

Condition

During Combustion
During Combustion
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 |
|----------------------------|------------|--------|---|--------------------------------|
| 2,6-DI-TERT-BUTYL-P-CRESOL | 128-37-0 | ACGIH | TWA(inhalable fraction and vapor):2 mg/m3 | A4: Not class. as human carcin |
| TITANIUM DIOXIDE | 13463-67-7 | ACGIH | TWA:10 mg/m3 | A4: Not class. as human carcin |
| TITANIUM DIOXIDE | 13463-67-7 | OSHA | TWA(as total dust):15 mg/m3 | |
| CAS NO SEQ117921 | 68855-54-9 | ACGIH | TWA(inhalable particulates):10 mg/m3 | |
| CAS NO SEQ117922 | 68855-54-9 | ACGIH | TWA(respirable particles):3 mg/m3 | |
| DUST, INERT OR NUISANCE | 68855-54-9 | OSHA | TWA(as total dust):15 mg/m3;TWA(as total dust):50 millions of particles/cu. ft.(15 mg/m3);TWA(respirable fraction):5 mg/m3;TWA(respirable fraction):15 millions of particles/cu. ft.(5 mg/m3) | |
| SILICA, AMORPHOUS | 68855-54-9 | OSHA | TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m3 | |
| SILICA, AMORPHOUS | 68909-20-6 | OSHA | TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m3 | |

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

Solid

Color

Dark Red

Specific Physical Form:

Paste

Odor

Slight Acrid

Odor threshold

No Data Available

pH

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 [Ref Std: 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

Strong acids
Strong bases
Strong oxidizing agents

10.6. Hazardous decomposition products

Substance

Condition

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.

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:

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

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 |
|-------------------|----------------|-------------------------------|---|
| Titanium dioxide | 13463-67-7 | Grp. 2B: Possible human carc. | 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 ATE >5,000 mg/kg |
| Sulfonium, [2-carboxy-1-(carboxymethyl)ethyl]dodecylethyl-, mixed Me and pentyl diesters, tetrafluoroborates | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| Sulfonium, [2-carboxy-1-(carboxymethyl)ethyl]dodecylethyl-, mixed Me and pentyl diesters, tetrafluoroborates | Ingestion | Rat | LD50 > 2,000 mg/kg |
| SILANE TREATED SILICA | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| SILANE TREATED SILICA | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| SILANE TREATED SILICA | Ingestion | Rat | LD50 > 5,110 mg/kg |
| POLYETHYLENE-POLYPROPYLENE GLYCOL | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| POLYETHYLENE-POLYPROPYLENE GLYCOL | Ingestion | Rat | LD50 5,700 mg/kg |
| DIATOMACEOUS EARTH | Dermal | Professional judgement | 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 |
| TITANIUM DIOXIDE | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| TITANIUM DIOXIDE | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 6.82 mg/l |
| TITANIUM DIOXIDE | Ingestion | Rat | LD50 > 10,000 mg/kg |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Dermal | Rat | LD50 > 2,000 mg/kg |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Ingestion | Rat | LD50 > 2,930 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--|------------------------|---------------------------|
| Sulfonium, [2-carboxy-1-(carboxymethyl)ethyl]dodecylethyl-, mixed Me and pentyl diesters, tetrafluoroborates | Professional judgement | Irritant |
| SILANE TREATED SILICA | Rabbit | No significant irritation |
| DIATOMACEOUS EARTH | In vitro data | No significant irritation |
| TITANIUM DIOXIDE | Rabbit | No significant irritation |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Human and animal | Minimal irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|---------------|---------------------------|
| Sulfonium, [2-carboxy-1-(carboxymethyl)ethyl]dodecylethyl-, mixed Me and pentyl diesters, tetrafluoroborates | In vitro data | No significant irritation |
| SILANE TREATED SILICA | Rabbit | No significant irritation |
| DIATOMACEOUS EARTH | Rabbit | Mild irritant |
| TITANIUM DIOXIDE | Rabbit | No significant irritation |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Rabbit | Mild irritant |

Skin Sensitization

| Name | Species | Value |
|--|---------------|-------------|
| Sulfonium, [2-carboxy-1-(carboxymethyl)ethyl]dodecylethyl-, mixed Me and pentyl diesters, tetrafluoroborates | In vitro data | Sensitizing |

| | | |
|----------------------------|------------------|----------------|
| SILANE TREATED SILICA | Human and animal | Not classified |
| DIATOMACEOUS EARTH | Mouse | Not classified |
| TITANIUM DIOXIDE | Human and animal | Not classified |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Human | 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 |
|--|----------|--|
| Sulfonium, [2-carboxy-1-(carboxymethyl)ethyl]dodecylethyl-, mixed Me and pentyl diesters, tetrafluoroborates | In Vitro | Not mutagenic |
| SILANE TREATED SILICA | In Vitro | Not mutagenic |
| DIATOMACEOUS EARTH | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| TITANIUM DIOXIDE | In Vitro | Not mutagenic |
| TITANIUM DIOXIDE | In vivo | Not mutagenic |
| 2,6-DI-TERT-BUTYL-P-CRESOL | In Vitro | Not mutagenic |
| 2,6-DI-TERT-BUTYL-P-CRESOL | In vivo | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|----------------------------|---------------|-------------------------|--|
| SILANE TREATED SILICA | Not Specified | Mouse | Some positive data exist, but the data are not sufficient for classification |
| DIATOMACEOUS EARTH | Inhalation | Human and animal | Carcinogenic |
| TITANIUM DIOXIDE | Ingestion | Multiple animal species | Not carcinogenic |
| TITANIUM DIOXIDE | Inhalation | Rat | Carcinogenic |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Ingestion | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |

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 organogenesis |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Ingestion | Not classified for female reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Ingestion | Not classified for male reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Ingestion | Not classified for development | Rat | NOAEL 100 mg/kg/day | 2 generation |

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 |
|----------------------------|------------|---|--|---------|-----------------------|-----------------------|
| SILANE TREATED SILICA | Inhalation | respiratory system silicosis | Not classified | 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 EARTH | Ingestion | hematopoietic system eyes kidney and/or bladder | Not classified | Rat | NOAEL 3,738 mg/kg/day | 90 days |
| TITANIUM DIOXIDE | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 0.01 mg/l | 2 years |
| TITANIUM DIOXIDE | Inhalation | pulmonary fibrosis | Not classified | Human | NOAEL Not available | occupational exposure |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 250 mg/kg/day | 28 days |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 500 mg/kg/day | 2 generation |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Ingestion | blood | Not classified | Rat | LOAEL 420 mg/kg/day | 40 days |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Ingestion | endocrine system | Not classified | Rat | NOAEL 25 mg/kg/day | 2 generation |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Ingestion | heart | Not classified | Mouse | NOAEL 3,480 mg/kg/day | 10 weeks |

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.

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

Skin Corrosion or Irritation

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.

Document Group: 37-9020-1

Version Number: 5.00

Issue Date: 04/08/22

Supersedes Date: 03/10/22

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Document Group: 43-2865-4
Issue Date: 04/08/22

Version Number: 2.00
Supersedes Date: 03/11/22

SECTION 1: Identification

1.1. Product identifier

3M™ Impregum™ Penta™ Super Quick Medium Body Base paste

Product Identification Numbers

LE-F100-3243-0

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

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.

Skin Sensitizer: Category 1A.

2.2. Label elements

Signal word

Warning

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.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|--|--------------|------------------------|
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridiny)butyl]carbamate] | 110531-92-5 | 40 - 60 Trade Secret * |
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | 1215036-04-6 | 1 - 20 Trade Secret * |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | 68855-54-9 | 1 - 20 Trade Secret * |
| Glycerides, C14-18 | 67701-27-3 | 1 - 20 Trade Secret * |
| N-ETHYL-P-TOLUENESULFONAMIDE | 80-39-7 | < 5 Trade Secret * |
| LANTHANUM TRIOXIDE | 1312-81-8 | < 2 Trade Secret * |
| 1-DODECYLIMIDAZOLE | 4303-67-7 | < 1 Trade Secret * |
| Titanium Dioxide | 13463-67-7 | < 0.5 Trade Secret * |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | 6485-40-1 | < 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:

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

Allergic skin reaction (redness, swelling, blistering, and itching).

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**

Carbon monoxide
Carbon dioxide
Irritant Vapors or Gases

Condition

During Combustion
During Combustion
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 |
|-------------------------|-------------------|---------------|---|--------------------------------|
| Titanium Dioxide | 13463-67-7 | ACGIH | TWA:10 mg/m3 | A4: Not class. as human carcin |
| Titanium Dioxide | 13463-67-7 | OSHA | TWA(as total dust):15 mg/m3 | |
| DUST, INERT OR NUISANCE | 68855-54-9 | OSHA | TWA(as total dust):15 mg/m3;TWA(as total dust):50 millions of particles/cu. ft.(15 mg/m3);TWA(respirable fraction):5 mg/m3;TWA(respirable fraction):15 millions of particles/cu. ft.(5 mg/m3) | |
| SILICA, AMORPHOUS | 68855-54-9 | OSHA | TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m3 | |

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**

Solid

Color

Blue

Specific Physical Form:

Paste

Odor

Minty

Odor threshold*No Data Available***pH***Not Applicable***Melting point***Not Applicable***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***No Data Available***Vapor Density***No Data Available***Density**1 - 1.2 g/cm³**Specific Gravity**

> 1 [Ref Std: 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***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

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:

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:

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.

| <u>Ingredient</u> | <u>CAS No.</u> | <u>Class Description</u> | <u>Regulation</u> |
|--------------------------|-----------------------|---------------------------------|---|
| Titanium dioxide | 13463-67-7 | Grp. 2B: Possible human carc. | 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

| <u>Name</u> | <u>Route</u> | <u>Species</u> | <u>Value</u> |
|--|---------------------|-----------------------|--|
| Overall product | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1- | Dermal | Professio | LD50 Not applicable |

| | | | |
|---|---------------------------------------|-----------------------------------|--|
| aziridinyl)butyl]carbamate] | | nal judgeme nt | |
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Glycerides, C14-18 | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Glycerides, C14-18 | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | Dermal | Professio nal judgeme nt | LD50 estimated to be > 5,000 mg/kg |
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | Ingestion | Rat | LD50 > 2,300 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 |
| N-ETHYL-P-TOLUENESULFONAMIDE | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| N-ETHYL-P-TOLUENESULFONAMIDE | Ingestion | similar compoun ds | LD50 estimated to be 300 - 2,000 mg/kg |
| LANTHANUM TRIOXIDE | Dermal | Professio nal judgeme nt | LD50 estimated to be > 5,000 mg/kg |
| LANTHANUM TRIOXIDE | Inhalation- Dust/Mist (4 hours) | Rat | LC50 > 5.3 mg/l |
| LANTHANUM TRIOXIDE | Ingestion | Rat | LD50 > 10,000 mg/kg |
| 1-DODECYLIMIDAZOLE | Ingestion | Rat | LD50 641 mg/kg |
| Titanium Dioxide | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| Titanium Dioxide | Inhalation- Dust/Mist (4 hours) | Rat | LC50 > 6.82 mg/l |
| Titanium Dioxide | Ingestion | Rat | LD50 > 10,000 mg/kg |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | Dermal | Rat | LD50 > 2,000 mg/kg |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | Ingestion | Rat | LD50 4,900 mg/kg |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | Inhalation- Dust/Mist (4 hours) | similar compoun ds | LC50 > 5.66 mg/l |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---|------------------------|---------------------------|
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | Rabbit | No significant irritation |
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | Rabbit | No significant irritation |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | In vitro data | No significant irritation |
| LANTHANUM TRIOXIDE | Rabbit | No significant irritation |
| 1-DODECYLIMIDAZOLE | Rabbit | Mild irritant |
| Titanium Dioxide | Rabbit | No significant irritation |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | Human and animal | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---|---------|-------------------|
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | Rabbit | Moderate irritant |
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | Rabbit | Mild irritant |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | Rabbit | Mild irritant |

| | | |
|---|---------------|---------------------------|
| LANTHANUM TRIOXIDE | Rabbit | Mild irritant |
| 1-DODECYLIMIDAZOLE | In vitro data | Severe irritant |
| Titanium Dioxide | Rabbit | No significant irritation |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | Rabbit | No significant irritation |

Skin Sensitization

| Name | Species | Value |
|---|-------------------------|----------------|
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | Guinea pig | Not classified |
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | Mouse | Not classified |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | Mouse | Not classified |
| LANTHANUM TRIOXIDE | Guinea pig | Not classified |
| 1-DODECYLIMIDAZOLE | Mouse | Sensitizing |
| Titanium Dioxide | Human and animal | Not classified |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | Multiple animal species | Sensitizing |

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 |
|---|----------|--|
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | In Vitro | Not mutagenic |
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | In Vitro | Not mutagenic |
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | In vivo | 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 |
| Titanium Dioxide | In Vitro | Not mutagenic |
| Titanium Dioxide | In vivo | Not mutagenic |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | In Vitro | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|--|------------|-------------------------|------------------|
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | Inhalation | Human and animal | Carcinogenic |
| Titanium Dioxide | Ingestion | Multiple animal species | Not carcinogenic |
| Titanium Dioxide | Inhalation | Rat | Carcinogenic |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|--|-----------|--------------------------------|---------|-----------------------|-------------------|
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during gestation |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | Ingestion | Not classified for development | Rat | NOAEL 250 mg/kg/day | during gestation |

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 |
|--|------------|--|--|---------|-----------------------|-----------------------|
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | Ingestion | hematopoietic system nervous system eyes kidney and/or bladder | Not classified | Rat | NOAEL 2,000 mg/kg/day | 13 weeks |
| 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 |
| Titanium Dioxide | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 0.01 mg/l | 2 years |
| Titanium Dioxide | Inhalation | pulmonary fibrosis | 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.

EPCRA 311/312 Hazard Classifications:**Physical Hazards**

Not applicable

Health Hazards

Respiratory or Skin Sensitization

Serious eye damage or eye irritation

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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