# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

075317433

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

075317359 075317367 075317375 075317383 075317425 075317441 075317458 075317508 075317516 075317524 075317532 075317540 075317557 273015032 273015889 273016536 273023190 273033739

Don's order anylonger-2013

MATERIAL SAFETY DATA SHEET 12149/12150/12151/12154 3MTM ESPETM VANISHTM 5% NAF WHITE VARNISH WITH TCP 06/12/12



# **Material Safety Data Sheet**

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# SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 12149/12150/12151/12154 3MTM ESPETM VANISHTM 5% NAF WHITE VARNISH

WITH TCP

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: 06/12/12 Supercedes Date: 04/28/10

Document Group: 26-9856-1

**Product Use:** 

Intended Use: Dental Product

Limitations on Use: For use only by dental professionals

Specific Use: Fluoride Varnish

# **SECTION 2: INGREDIENTS**

Ingredient	C.A.S. No.	% by Wt
PENTAERYTHRITOL GLYCEROL ESTER OF COLOPHONY RESIN	Not available	30 - 75
n-HEXANE	110-54-3	10 - 15
ETHYL ALCOHOL	64-17-5	1 - 15
SODIUM FLUORIDE	7681-49-4	1 - 5
FLAVOR ENHANCER	Not available	1 - 5
THICKENER	Not available	1 - 5
FOOD GRADE FLAVOR	Not available	1 - 5
MODIFIED TRICALCIUM PHOSPHATE	Not available	< 5

# SECTION 3: HAZARDS IDENTIFICATION

### 3.1 EMERGENCY OVERVIEW

Specific Physical Form: Liquid

# MATERIAL SAFETY DATA SHEET 12149/ 12150/ 12151/ 12154 3M<sup>TM</sup> ESPE<sup>TM</sup> VANISH<sup>TM</sup> 5% NoF WHITE VARNISH WITH TCP 06/12/12

Odor, Color, Grade: Light yellow liquid with mint, cherry or melon 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. 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. See Section 3.2 for other hazards that can be associated with the ingredients in this product in a non-emergency situation.

#### 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.

#### Prolonged or repeated exposure may cause:

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

May be absorbed following inhalation and cause target organ effects.

#### Ingestion:

May be harmful if swallowed.

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

Chemical (Aspiration) Pneumonitis: Signs/symptoms may include coughing, gasping, choking, burning of the mouth, difficulty breathing, bluish colored skin (cyanosis), and may be fatal.

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.

#### Prolonged or repeated exposure may cause:

Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

Peripheral Neuropathy: Signs/symptoms may include tingling or numbness of the extremities, incoordination, weakness of the hands and feet, tremors and muscle atrophy.

Hard Tissue Effects: Signs/symptoms may include color changes in the teeth and nails; changes in development of bone, teeth or nails; weakening of the bones; and/or hair loss.

MATERIAL SAFETY DATA SHEET 12149/12150/12151/121543 M<sup>TM</sup> ESPE<sup>TM</sup> VANISH<sup>TM</sup> 5% NaF WHITE VARNISH WITH TCP 06/12/12

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

NOTE: This product contains ethanol. There are data associating human consumption of alcoholic beverages (ethanol) with developmental toxicity. This is not an expected effect during the foreseeable use of this product.

#### Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

NOTE: This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified as human carcinogens by the International Agency for Research on Cancer, the U.S. National Toxicology Program, and the California Environmental Protection Agency (for purposes of Proposition 65). Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer.

humans

Ingredient ETHYL ALCOHOL

C.A.S. No.

Class Description
Grp. 1: Carcinogenic to

Regulation

International Agency for Research on Cancer

# **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. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

## SECTION 5: FIRE FIGHTING MEASURES

#### 5.1 FLAMMABLE PROPERTIES

Autoignition temperature

No Data Available

Flash Point

25 °C [Test Method: Closed Cup]

Flammable Limits(LEL)

No Data Available

Flammable Limits(UEL)

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.

MATERIAL SAFETY DATA SHEET 12149/12150/12151/12154 3M<sup>TM</sup> ESPE<sup>TM</sup> VANISH<sup>TM</sup> 5% NaF WHITE VARNISH WITH TCP 06/12/12

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. Cover, but do not seal for 48 hours.

#### 6.2. Environmental precautions

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Place in a metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene.

#### 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.

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

Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Avoid breathing of vapors, mists or spray. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits. If ventilation is not adequate, use respiratory protection equipment. Avoid eye contact. Avoid prolonged or repeated skin contact. Wash hands after handling and before eating.

#### 7.2 STORAGE

Store away from acids. Store away from heat. Store away from oxidizing agents. Store in a cool, dry place.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation. Use in a well-ventilated area.

## 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. Gloves not normally required.

### 8.2.3 Respiratory Protection

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

MATERIAL SAFETY DATA SHEET 12149/12150/12151/12154 3MTM ESPETM VANISHTM 5% NaF WHITE VARNISH WITH TCP

breathing of vapors, mists or spray.

### 8.2.4 Prevention of Swallowing

Do not ingest. Wash hands after handling and before eating.

## 8.3 EXPOSURE GUIDELINES

Ingredient	Authority	Type	Limit	Additional Information
ETHYL ALCOHOL	ACGIH	STEL	1000 ppm	radional morning
ETHYL ALCOHOL	OSHA	TWA	1900 mg/m3	
FLUORIDES	ACGIH	TWA, as F	2.5 mg/m3	
FLUORIDES	OSHA	TWA, as dust	2.5 mg/m3	
FLUORIDES	OSHA	TWA, as F	2.5 mg/m3	
Hexane	ACGIH	TWA	50 ppm	Skin Notation*
Hexane	OSHA	TWA	1800 mg/m3	
n-HEXANE	ACGIH	TWA	50 ppm	Skin Notation*
n-HEXANE	OSHA	TWA	1800 mg/m3	

<sup>\*</sup> Substance(s) refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

#### 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: Liquid

Odor, Color, Grade: Light yellow liquid with mint, cherry or melon odor

General Physical Form: Liquid

Autoignition temperature No Data Available

Flash Point 25 °C [Test Method: Closed Cup]

Flammable Limits(LEL) No Data Available

Flammable Limits(UEL) No Data Available

**Boiling Point** 68 °C Density 0.8 g/ml

Vapor Density Not Applicable

Vapor Pressure Not Applicable

Specific Gravity 0.8 [Ref Std: WATER=1]

Not Applicable pH Melting point Not Applicable

Solubility in Water Moderate **Evaporation rate** Not Applicable

Kow - Oct/Water partition coef Not Applicable Viscosity No Data Available

## SECTION 10: STABILITY AND REACTIVITY

MATERIAL SAFETY DATA SHEET 12149/12150/12151/12154 3MTM ESPETM VANISHTM 5% NaF WHITE VARNISH WITH TCP 06/12/12

Stability: Stable.

Materials and Conditions to Avoid: 10.1 Conditions to avoid Heat

10.2 Materials to avoid Strong oxidizing agents Strong acids

Hazardous Polymerization: Hazardous polymerization will not occur.

# Hazardous Decomposition or By-Products

Substance Carbon monoxide Carbon dioxide Condition
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 uncured product 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):

70-2010-5739-8, 70-2010-5740-6, 70-2010-5741-4, 70-2010-5742-2, 70-2010-5743-0, 70-2010-5744-8, 70-2010-5745-5, 70-2010-5746-3, 70-2010-5747-1, 70-2010-5748-9, 70-2010-5749-7, 70-2010-5750-5, 70-2010-5751-3, 70-2010-5752-1, 70-2010-8812-0, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740-1, 70-2010-5740

MATERIAL SAFETY DATA SHEET 12149/12150/12151/12154 3MTM ESPETM VANISHTM 5% NaF WHITE VARNISH WITH TCP 06/12/12

2010-8813-8, 70-2010-8814-6, 70-2010-8815-3, 70-2010-8816-1, 70-2010-8817-9, 70-2010-8818-7, 70-2010-8819-5, 70-2010-8820-3, 70-2010-8821-1, 70-2010-8822-9, 70-2010-8823-7, 70-2010-8824-5, 70-2010-8825-2, 70-2010-8826-0, 70-2010-8838-5, 70-2010-8839-3, 70-2010-8840-1, 70-2010-8849-2, 70-2010-8850-0, 70-2010-8851-8

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 - Yes

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

Ingredient	C.A.S. No	% by Wt
n-HEXANE	110-54-3	10 - 15
n-HEXANE (Hexane)	110-54-3~	10 - 15

#### 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: 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.

Reason for Reissue: Change in MSDS ingredient disclosure.

Revision Changes:

Section 1: Product use information was modified.

Section 16: Disclaimer (second paragraph) was modified.

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

Section 3: Carcinogenicity phrase was modified.

Section 14: Transportation legal text was modified.

# MATERIAL SAFETY DATA SHEET 12149/ 12150/ 12151/ 12154 3MTM ESPETM VANISHTM 5% NaF WHITE VARNISH WITH TCP 06/12/12

Section 9: Density information 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 9: Vapor density text was modified.

Section 9: Vapor pressure text was modified.

Section 5: Flash point information was modified.

Sections 3 and 9: Odor, color, grade 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 14: ID Number(s) Template 1 was modified.

Section 2: Ingredient table was modified.

Section 15: EPCRA 313 information was modified.

Section 8: Exposure guidelines ingredient information was modified.

Section 3: Carcinogenicity table was modified.

Section 6: 6.2. Environmental precautions heading was added.

Section 6: 6.1. Personal precautions, protective equipment and emergency procedures heading was added.

Section 16: Web address 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 heading was deleted.

Section 1: Address line 1 was deleted.

Section 1: Address line 2 was deleted.

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MATERIAL SAFETY DATA SHEET 12149/ 12150/ 12151/ 12154 3MTM ESPETM VANISHTM 5% NaF WHITE VARNISH WITH TCP 06/12/12

3M USA MSDSs are available at www.3M.com

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# **Safety Data Sheet**

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 Document Group:
 26-9856-1
 Version Number:
 3.00

 Issue Date:
 02/25/16
 Supercedes Date:
 05/27/15

# **SECTION 1: Identification**

#### 1.1. Product identifier

12149/ 12150/ 12151/ 12154 3MTM ESPETM VANISHTM 5% NaF WHITE VARNISH WITH TCP

#### **Product Identification Numbers**

70-2010-5739-8, 70-2010-5740-6, 70-2010-5742-2, 70-2010-5744-8, 70-2010-5747-1, 70-2010-5749-7, 70-2010-5750-5, 70-2010-5751-3, 70-2010-5752-1, 70-2010-8812-0, 70-2010-8813-8, 70-2010-8814-6, 70-2010-8815-3, 70-2010-8816-1, 70-2010-8817-9, 70-2010-8818-7, 70-2010-8819-5, 70-2010-8820-3, 70-2010-8821-1, 70-2010-8822-9, 70-2010-8823-7, 70-2010-8824-5, 70-2010-8825-2, 70-2010-8849-2, 70-2010-8850-0, 70-2010-8851-8

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

## Recommended use

Dental Product, Fluoride Varnish

## **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

Flammable Liquid: Category 3.

Serious Eye Damage/Irritation: Category 2A.

Aspiration Hazard: Category 1. Reproductive Toxicity: Category 2.

Specific Target Organ Toxicity (central nervous system): Category 3.

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#### 12149/ 12150/ 12151/ 12154 3MTM ESPETM VANISHTM 5% NaF WHITE VARNISH WITH TCP 02/25/16

Specific Target Organ Toxicity (repeated exposure): Category 1.

#### 2.2. Label elements

#### Signal word

Danger

#### **Symbols**

Flame | Exclamation mark | Health Hazard |

#### **Pictograms**







#### **Hazard Statements**

Flammable liquid and vapor.

Causes serious eye irritation.

May be fatal if swallowed and enters airways.

May cause drowsiness or dizziness.

Suspected of damaging fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure:

musculoskeletal system |

nervous system |

## **Precautionary Statements**

#### **Prevention:**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not breathe dust/fume/gas/mist/vapors/spray.

Use only in a well-ventilated area.

Wear protective gloves and eye/face protection.

Do not eat, drink or smoke when using this product.

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.

Do NOT induce vomiting.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

IF exposed or concerned: Get medical advice/attention.

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.

## 12149/ 12150/ 12151/ 12154 3MTM ESPETM VANISHTM 5% NAF WHITE VARNISH WITH TCP 02/25/16

### **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
PENTAERYTHRITOL GLYCEROL ESTER OF	Trade Secret*	30 - 75 Trade Secret *
COLOPHONY RESIN		
n-HEXANE	110-54-3	10 - 15 Trade Secret *
ETHYL ALCOHOL	64-17-5	1 - 15 Trade Secret *
SODIUM FLUORIDE	7681-49-4	1 - 5 Trade Secret *
FLAVOR ENHANCER	Trade Secret*	1 - 5 Trade Secret *
THICKENER	Trade Secret*	1 - 5 Trade Secret *
FOOD GRADE FLAVOR	Not available	1 - 5 Trade Secret *
MODIFIED TRICALCIUM PHOSPHATE	Not available	< 5 Trade Secret *

<sup>\*</sup>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:

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.

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#### 12149/ 12150/ 12151/ 12154 3MTM ESPETM VANISHTM 5% NaF WHITE VARNISH WITH TCP 02/25/16

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

**Substance** 

Carbon monoxide Carbon dioxide

#### Condition

**During Combustion 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. 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. 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. 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. 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. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. 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.) Do not get in eyes. Use personal protective equipment (gloves, respirators, etc.) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation.

## 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>
n-HEXANE	110-54-3	ACGIH	TWA:50 ppm	Skin Notation
n-HEXANE	110-54-3	OSHA	TWA:1800 mg/m3(500 ppm)	
ETHYL ALCOHOL	64-17-5	ACGIH	STEL:1000 ppm	A3: Confirmed animal carcin.

ETHYL ALCOHOL	64-17-5	OSHA	TWA:1900 mg/m3(1000 ppm)	
THICKENER	Trade	CMRG	CMRG TWA(as respirable dust):3	
	Secret		mg/m3	
THICKENER	Trade	OSHA	OSHA TWA concentration:0.8	
	Secret		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:

Specific Physical Form:

Liquid

Liquid

Odor, Color, Grade: Light yellow liquid with mint, cherry or melon odor

Odor thresholdNo Data AvailablepHNot ApplicableMelting pointNot Applicable

Boiling Point 68 °C

Flash Point 25 °C [Test Method: Closed Cup]

Evaporation rate

Flammability (solid, gas)

Flammable Limits(LEL)

Flammable Limits(UEL)

Vapor Pressure

Vapor Density

Not Applicable
No Data Available
Not Applicable
Not Applicable
Not Applicable
Not Applicable
Not Applicable
0.8 g/ml

Specific Gravity 0.8 [Ref Std: WATER=1]

Solubility in Water Moderate

Solubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNot ApplicableAutoignition temperatureNo Data Available

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#### 12149/ 12150/ 12151/ 12154 3MTM ESPETM VANISHTM 5% NaF WHITE VARNISH WITH TCP 02/25/16

Decomposition temperatureNo Data AvailableViscosityNo Data AvailableVolatile Organic CompoundsNo 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.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Heat

#### 10.5. Incompatible materials

Strong oxidizing agents Strong acids

## 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:

Exposures needed to cause the following health effect(s) are not expected during normal, intended use:

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).

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#### **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:**

Chemical (Aspiration) Pneumonitis: Signs/symptoms may include coughing, gasping, choking, burning of the mouth, difficulty breathing, bluish colored skin (cyanosis), and may be fatal.

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:

Exposures needed to cause the following health effect(s) are not expected during normal, intended use:

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

### Prolonged or repeated exposure may cause target organ effects:

Exposures needed to cause the following health effect(s) are not expected during normal, intended use:

Hard Tissue Effects: Signs/symptoms may include color changes in the teeth and nails; changes in development of bone, teeth or nails; weakening of the bones; and/or hair loss.

Peripheral Neuropathy: Signs/symptoms may include tingling or numbness of the extremities, incoordination, weakness of the hands and feet, tremors and muscle atrophy.

## **Reproductive/Developmental Toxicity:**

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

#### **Additional Information:**

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

#### **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	Rat	LD50 > 2,000 mg/kg
PENTAERYTHRITOL GLYCEROL ESTER OF COLOPHONY	Ingestion	Rat	LD50 8,400 mg/kg
RESIN			
n-HEXANE	Dermal	Rabbit	LD50 > 2,000  mg/kg
n-HEXANE	Inhalation-	Rat	LC50 170 mg/l
	Vapor (4		
	hours)		
n-HEXANE	Ingestion	Rat	LD50 > 28,700 mg/kg
ETHYL ALCOHOL	Dermal	Rabbit	LD50 > 15,800 mg/kg
ETHYL ALCOHOL	Inhalation-	Rat	LC50 124.7 mg/l
	Vapor (4		
	hours)		
ETHYL ALCOHOL	Ingestion	Rat	LD50 17,800 mg/kg

FLAVOR ENHANCER	Dermal		LD50 estimated to be > 5,000 mg/kg
THICKENER	Dermal	Rabbit	LD50 > 5,000 mg/kg
FLAVOR ENHANCER	Ingestion	Rat	LD50 16,500 mg/kg
SODIUM FLUORIDE	Dermal	Rat	LD50 > 2,000 mg/kg
SODIUM FLUORIDE	Inhalation-	Rat	LC50 1 mg/l
	Dust/Mist		
SODIUM FLUORIDE	Ingestion	Rat	LD50 148.5 mg/kg
THICKENER	Inhalation-	Rat	LC50 > 0.691 mg/l
	Dust/Mist		
	(4 hours)		
THICKENER	Ingestion	Rat	LD50 > 5,110 mg/kg

ATE = acute toxicity estimate

## Skin Corrosion/Irritation

Name	Species	Value
n-HEXANE	Human	Mild irritant
	and	
	animal	
ETHYL ALCOHOL	Rabbit	No significant irritation
SODIUM FLUORIDE	official	Irritant
	classifica	
	tion	
THICKENER	Rabbit	No significant irritation

**Serious Eye Damage/Irritation** 

Name	Species	Value
n-HEXANE	Rabbit	Mild irritant
ETHYL ALCOHOL	Rabbit	Moderate irritant
SODIUM FLUORIDE	official	Severe irritant
	classifica	
	tion	
THICKENER	Rabbit	No significant irritation

# **Skin Sensitization**

Name	Species	Value
n-HEXANE	Human	Not sensitizing
ETHYL ALCOHOL	Human	Some positive data exist, but the data are not sufficient for classification
THICKENER	Human and animal	Not sensitizing

# **Respiratory Sensitization**

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

**Germ Cell Mutagenicity** 

Germ Gen Huagemeny			
Name	Route	Value	
n-HEXANE	In Vitro	Not mutagenic	
n-HEXANE	In vivo	Not mutagenic	
ETHYL ALCOHOL	In Vitro	Some positive data exist, but the data are not	
		sufficient for classification	
ETHYL ALCOHOL	In vivo	Some positive data exist, but the data are not	
		sufficient for classification	
THICKENER	In Vitro	Not mutagenic	

Carcinogenicity

Name	Route	Species	Value
n-HEXANE	Dermal	Mouse	Not carcinogenic
n-HEXANE	Inhalation	Mouse	Some positive data exist, but the data are not

			sufficient for classification
ETHYL ALCOHOL	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
THICKENER	Not Specified	Mouse	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
n-HEXANE	Ingestion	Not toxic to development	Mouse	NOAEL 2,200 mg/kg/day	during organogenesi s
n-HEXANE	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 0.7 mg/l	during gestation
n-HEXANE	Ingestion	Toxic to male reproduction	Rat	NOAEL 1,140 mg/kg/day	90 days
n-HEXANE	Inhalation	Toxic to male reproduction	Rat	LOAEL 3.52 mg/l	28 days
ETHYL ALCOHOL	Inhalation	Not toxic to development	Rat	NOAEL 38 mg/l	during gestation
ETHYL ALCOHOL	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 5,200 mg/kg/day	premating & during gestation
THICKENER	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
THICKENER	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
THICKENER	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
n-HEXANE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	not available
n-HEXANE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Rabbit	NOAEL Not available	8 hours
n-HEXANE	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 24.6 mg/l	8 hours
ETHYL ALCOHOL	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	LOAEL 2.6 mg/l	30 minutes
ETHYL ALCOHOL	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	LOAEL 9.4 mg/l	not available
ETHYL ALCOHOL	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL not available	
ETHYL ALCOHOL	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL 3,000 mg/kg	
SODIUM FLUORIDE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure

Specific Target Organ Toxicity - repeated exposure

					T . T . 1	
Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure

						Duration
n-HEXANE	Inhalation	peripheral nervous system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
n-HEXANE	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Mouse	LOAEL 1.76 mg/l	13 weeks
n-HEXANE	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	6 months
n-HEXANE	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 1.76 mg/l	6 months
n-HEXANE	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 35.2 mg/l	13 weeks
n-HEXANE	Inhalation	auditory system   immune system   eyes	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
n-HEXANE	Inhalation	heart   skin   endocrine system	All data are negative	Rat	NOAEL 1.76 mg/l	6 months
n-HEXANE	Ingestion	peripheral nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,140 mg/kg/day	90 days
n-HEXANE	Ingestion	endocrine system   hematopoietic system   liver   immune system   kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	13 weeks
ETHYL ALCOHOL	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 124 mg/l	365 days
ETHYL ALCOHOL	Inhalation	hematopoietic system   immune system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 25 mg/l	14 days
ETHYL ALCOHOL	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 8,000 mg/kg/day	4 months
ETHYL ALCOHOL	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL 3,000 mg/kg/day	7 days
SODIUM FLUORIDE	Inhalation	bone, teeth, nails, and/or hair	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
SODIUM FLUORIDE	Ingestion	bone, teeth, nails, and/or hair	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL 0.33 mg/kg/day	environmenta 1 exposure
THICKENER	Inhalation	respiratory system   silicosis	All data are negative	Human	NOAEL Not available	occupational exposure

# **Aspiration Hazard**

Name	Value
n-HEXANE	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

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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.

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 - Yes

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

<u>Ingredient</u>	<u>C.A.S. No</u>	% by Wt
n-HEXANE	110-54-3	Trade Secret 10 - 15
n-HEXANE (Hexane)	110-54-3	10 - 15

## 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

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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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