

## **Material Safety Data Sheet**

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**PRODUCT NAME:** 3M<sup>TM</sup> ESPE<sup>TM</sup> EXPRESS<sup>TM</sup> XT PUTTY SOFT RF

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

**Issue Date:** 10/31/14 **Supercedes Date:** 06/30/07 **Document Group:** 23-3569-3

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

70-2011-3082-3

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

22-6628-6, 22-6627-8

### **Revision Changes:**

Kit: Component heading paragraph information was modified.

Page Heading: Product name information was modified.

Kit: Product name information was modified.

Kit initial issue message information was modified.

Section 1: Manufacturer name information was added.

Section 16: Disclaimer (first paragraph) information was added.

Section 16: Disclaimer (second paragraph) information was added.

Kit: ID Number Heading information was added.

Kit: ID Number(s) information was added.

Section 16: Web address information was added.

Section 1: Address information was added.

Copyright information was added.

Company logo information was added.

Telephone header information was added.

#### MATERIAL SAFETY DATA SHEET 3MTM ESPETM EXPRESSTM XT PUTTY SOFT RF 10/31/14

Company Telephone information was added.

Section 1: Emergency phone information information was added.

Company Logo information was deleted.

Copyright information was deleted.

Kit: Manufacturer's name information was deleted.

Kit: Emergency phone information information was deleted.

Kit: Disclaimer (first paragraph) information was deleted.

Kit: Disclaimer (second paragraph) information was deleted.

Kit: Address line 1 information was deleted. Kit: Address line 2 information was deleted.

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#### 3MTM ESPETM EXPRESSTM XT PUTTY SOFT BASE 02/25/16



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22-6628-6 **Version Number:** 5.00 **Document Group:** 02/25/16 **Issue Date: Supercedes Date:** 10/27/14

## **SECTION 1: Identification**

#### 1.1. Product identifier

3MTM ESPETM EXPRESSTM XT PUTTY SOFT BASE

#### **Product Identification Numbers**

33-5000-7964-6

#### 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

**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

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### 2.2. Label elements

#### Signal word

Not applicable.

## **Symbols**

Not applicable.

#### **Pictograms**

Not applicable.

#### 2.3. Hazards not otherwise classified

None.

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

Ingredient	C.A.S. No.	% by Wt
ALUMINA	21645-51-2	35 - 40 Trade Secret *
CRISTOBALITE	14464-46-1	30 - 35 Trade Secret *
VINYL POLYDIMETHYLSILOXANE	68083-19-2	20 - 25 Trade Secret *
HYDROCARBONS	8042-47-5	5 - 10 Trade Secret *
AMORPHOUS SILICA	112945-52-5	< 5 Trade Secret *
DIMETHYL METHYL HYDROGEN SILICONE	68037-59-2	< 5 Trade Secret *
FLUID		
QUARTZ	14808-60-7	< 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:**

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**

#### 3MTM ESPETM EXPRESSTM XT PUTTY SOFT BASE 02/25/16

**Substance** 

Carbon monoxide Carbon dioxide Irritant Vapors or Gases **Condition** 

**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

Ventilate the area with fresh air. Observe precautions from other sections.

### 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 prolonged or repeated skin contact. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. 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. 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	<b>Additional Comments</b>
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.)	
QUARTZ	14808-60-7	ACGIH	TWA(respirable	A2: Suspected human
			fraction):0.025 mg/m3	carcin.
QUARTZ	14808-60-7	OSHA	TWA concentration(as total	
			dust):0.3 mg/m3;TWA	
			concentration(respirable):0.1	
			mg/m3(2.4 millions of	
			particles/cu. ft.)	

ACGIH: American Conference of Governmental Industrial Hygienists

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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: odorless, ocher paste **Odor threshold** No Data Available pН Not Applicable **Melting point** No Data Available **Boiling Point** Not Applicable

Flash Point Flash point > 93 °C (200 °F)

No Data Available **Evaporation rate** Not Classified Flammability (solid, gas) Flammable Limits(LEL) Not Applicable Flammable Limits(UEL) Not Applicable Vapor Pressure Not Applicable Not Applicable **Vapor Density** 1.4 - 1.7 g/cm3 **Density** 

**Specific Gravity** 1.4 - 1.7 [Ref Std: WATER=1]

Solubility in Water Negligible Solubility- non-water No Data Available Partition coefficient: n-octanol/ water Not Applicable No Data Available **Autoignition temperature Decomposition temperature** No Data Available No Data Available Viscosity **Volatile Organic Compounds** No Data Available Percent volatile No Data Available

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

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### 3M<sup>TM</sup> ESPE<sup>TM</sup> EXPRESS<sup>TM</sup> XT PUTTY SOFT BASE 02/25/16

#### 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

Amines 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.

The information below represents toxicological information associated with the individual components of the uncured

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:

No known health effects.

#### **Skin Contact:**

Contact with the skin during product use is not expected to result in significant irritation.

### **Eve Contact:**

Contact with the eyes during product use is not expected to result in significant irritation.

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### **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
SILICA, CRYS AIRRESP	14808-60-7	Known human carcinogen	National Toxicology Program Carcinogens
CRISTOBALITE	14464-46-1	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
QUARTZ	14808-60-7	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	1	No data available; calculated ATE > 5,000 mg/kg
ALUMINA	Dermal		LD50 estimated to be > 5,000 mg/kg
ALUMINA	Ingestion	Rat	LD50 > 5,000 mg/kg
CRISTOBALITE	Dermal		LD50 estimated to be > 5,000 mg/kg
CRISTOBALITE	Ingestion		LD50 estimated to be > 5,000 mg/kg
VINYL POLYDIMETHYLSILOXANE	Dermal	Rabbit	LD50 > 15,440 mg/kg
VINYL POLYDIMETHYLSILOXANE	Ingestion	Rat	LD50 > 15,440 mg/kg
HYDROCARBONS	Dermal	Rabbit	LD50 > 2,000 mg/kg
HYDROCARBONS	Ingestion	Rat	LD50 > 5,000 mg/kg
QUARTZ	Dermal		LD50 estimated to be > 5,000 mg/kg
QUARTZ	Ingestion		LD50 estimated to be > 5,000 mg/kg
AMORPHOUS SILICA	Dermal	Rabbit	LD50 > 5,000 mg/kg
DIMETHYL METHYL HYDROGEN SILICONE FLUID	Dermal	Rabbit	LD50 > 2,000 mg/kg
AMORPHOUS SILICA	Inhalation-	Rat	LC50 > 0.691 mg/l
	Dust/Mist		
	(4 hours)		
AMORPHOUS SILICA	Ingestion	Rat	LD50 > 5,110 mg/kg
DIMETHYL METHYL HYDROGEN SILICONE FLUID	Ingestion	Rat	LD50 > 2,000 mg/kg

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Name	Species	Value
ALUMINA	Rabbit	No significant irritation
CRISTOBALITE	Professio	No significant irritation
	nal	
	judgeme	
	nt	
VINYL POLYDIMETHYLSILOXANE	Rabbit	No significant irritation
HYDROCARBONS	Rabbit	No significant irritation
AMORPHOUS SILICA	Rabbit	No significant irritation
QUARTZ	Professio	No significant irritation
	nal	
	judgeme	
	nt	

**Serious Eye Damage/Irritation** 

Name	Species Value
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## 3M<sup>TM</sup> ESPE<sup>TM</sup> EXPRESS<sup>TM</sup> XT PUTTY SOFT BASE 02/25/16

ALUMINA	Rabbit	No significant irritation
VINYL POLYDIMETHYLSILOXANE	Rabbit	Mild irritant
HYDROCARBONS	Rabbit	Mild irritant
AMORPHOUS SILICA	Rabbit	No significant irritation

## **Skin Sensitization**

Name	Species	Value
ALUMINA	Guinea	Not sensitizing
	pig	
HYDROCARBONS	Guinea	Not sensitizing
	pig	
AMORPHOUS SILICA	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
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
HYDROCARBONS	In Vitro	Not mutagenic
AMORPHOUS SILICA	In Vitro	Not mutagenic
QUARTZ	In Vitro	Some positive data exist, but the data are not sufficient for classification
QUARTZ	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
ALUMINA	Not	Multiple	Not carcinogenic
	Specified	animal	
		species	
CRISTOBALITE	Inhalation	Human	Carcinogenic
		and	
		animal	
HYDROCARBONS	Dermal	Mouse	Not carcinogenic
HYDROCARBONS	Inhalation	Multiple	Not carcinogenic
		animal	
		species	
AMORPHOUS SILICA	Not	Mouse	Some positive data exist, but the data are not
	Specified		sufficient for classification
QUARTZ	Inhalation	Human	Carcinogenic
		and	
		animal	

## **Reproductive Toxicity**

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
ALUMINA	Ingestion	Not toxic to development	Rat	NOAEL 768 mg/kg/day	during organogenesi s
HYDROCARBONS	Ingestion	Not toxic to female reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
HYDROCARBONS	Ingestion	Not toxic to male reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
HYDROCARBONS	Ingestion	Not toxic to development	Rat	NOAEL 4,350	during

### 3M<sup>TM</sup> ESPE<sup>TM</sup> EXPRESS<sup>TM</sup> XT PUTTY SOFT BASE 02/25/16

				mg/kg/day	gestation
AMORPHOUS SILICA	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
AMORPHOUS SILICA	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
AMORPHOUS 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

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
HYDROCARBONS	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,381 mg/kg/day	90 days
HYDROCARBONS	Ingestion	liver   immune system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,336 mg/kg/day	90 days
AMORPHOUS SILICA	Inhalation	respiratory system   silicosis	All data are negative	Human	NOAEL Not available	occupational exposure
QUARTZ	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure

### **Aspiration Hazard**

Name	Value
HYDROCARBONS	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.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

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

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## **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

### 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: 0 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:
 22-6628-6
 Version Number:
 5.00

 Issue Date:
 02/25/16
 Supercedes Date:
 10/27/14

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Document Group:22-6627-8Version Number:4.01Issue Date:02/22/21Supercedes Date:02/25/16

## **SECTION 1: Identification**

#### 1.1. Product identifier

3M<sup>TM</sup> Express<sup>TM</sup> XT Putty Soft Catalyst

#### **Product Identification Numbers**

33-5000-7965-3

#### 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

**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

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### 2.2. Label elements

### Signal word

Not applicable.

### **Symbols**

Not applicable.

\_\_\_\_\_

#### **Pictograms**

Not applicable.

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

Ingredient	C.A.S. No.	% by Wt
Alumina Trihydrate	21645-51-2	35 - 40 Trade Secret *
CRISTOBALITE	14464-46-1	30 - 35 Trade Secret *
SILOXANES AND SILICONES, DI-ME, VINYL	68083-19-2	25 - 30 Trade Secret *
GROUP-TERMINATED		
White mineral oil (petroleum)	8042-47-5	5 - 10 Trade Secret *
AMORPHOUS SILICA	112945-52-5	<= 5 Trade Secret *
QUARTZ	14808-60-7	<= 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:

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

No critical symptoms or effects. 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**

SubstanceConditionCarbon monoxideDuring CombustionCarbon dioxideDuring CombustionIrritant Vapors or GasesDuring Combustion

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

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus,

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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

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. Observe precautions from other sections.

### 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

Avoid prolonged or repeated skin contact. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. 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. 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	<b>Additional Comments</b>
SILICA, AMORPHOUS	112945-52-	OSHA	TWA:20 millions of	
	5		particles/cu. ft.;TWA	
			concentration:0.8 mg/m3	
CRISTOBALITE	14464-46-1	ACGIH	TWA(respirable	A2: Suspected human
			fraction):0.025 mg/m3	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	
QUARTZ	14808-60-7	ACGIH	TWA(respirable	A2: Suspected human
			fraction):0.025 mg/m3	carcin.
QUARTZ	14808-60-7	OSHA	TWA Table Z-	
			1(respirable):0.05	
			mg/m3;TWA Table Z-	
			3(respirable):0.1 mg/m3	
Aluminum, insoluble compounds	21645-51-2	ACGIH	TWA(respirable fraction):1	A4: Not class. as human
			mg/m3	carcin
DUST, INERT OR NUISANCE	21645-51-2	OSHA	TWA(as total dust):15	
			mg/m3;TWA(as total dust):50	

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			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)	
MINERAL OILS, HIGHLY- REFINED OILS	8042-47-5	ACGIH	TWA(inhalable fraction):5 mg/m3	A4: Not class. as human carcin
Paraffin oil	8042-47-5	OSHA	TWA(as mist):5 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 White

Specific Physical Form:
Paste
Odor
Odorless

Odor thresholdNo Data AvailablepHNot ApplicableMelting pointNo Data AvailableBoiling PointNot Applicable

Flash Point Flash point > 93 °C (200 °F)

Evaporation rate

Flammability (solid, gas)

Flammable Limits(LEL)

Flammable Limits(UEL)

Vapor Pressure

Not Applicable

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**Density** 1.4 - 1.6 g/cm<sup>3</sup>

Specific Gravity >= 1 [Ref Std:WATER=1]

Solubility in Water Negligible

Solubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNot ApplicableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data AvailableViscosityNo Data AvailableVolatile Organic CompoundsNo 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

Amines 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.

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:

No health effects are expected.

### **Skin Contact:**

Contact with the skin during product use is not expected to result in significant irritation.

#### **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	14464-46-1	Known human carcinogen	National Toxicology Program Carcinogens
SILICA, CRYS AIRRESP	14808-60-7	Known human carcinogen	National Toxicology Program Carcinogens
CRISTOBALITE	14464-46-1	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
QUARTZ	14808-60-7	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 ATE >5,000 mg/kg
Alumina Trihydrate	Dermal		LD50 estimated to be > 5,000 mg/kg
Alumina Trihydrate	Ingestion	Rat	LD50 > 5,000 mg/kg
CRISTOBALITE	Dermal		LD50 estimated to be > 5,000 mg/kg
CRISTOBALITE	Ingestion		LD50 estimated to be > 5,000 mg/kg
SILOXANES AND SILICONES, DI-ME, VINYL GROUP- TERMINATED	Dermal	Rabbit	LD50 > 15,440 mg/kg
SILOXANES AND SILICONES, DI-ME, VINYL GROUP- TERMINATED	Ingestion	Rat	LD50 > 15,440 mg/kg
White mineral oil (petroleum)	Dermal	Rabbit	LD50 > 2,000 mg/kg
White mineral oil (petroleum)	Ingestion	Rat	LD50 > 5,000 mg/kg
QUARTZ	Dermal		LD50 estimated to be > 5,000 mg/kg
QUARTZ	Ingestion		LD50 estimated to be > 5,000 mg/kg
AMORPHOUS SILICA	Dermal	Rabbit	LD50 > 5,000 mg/kg
AMORPHOUS SILICA	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
AMORPHOUS SILICA	Ingestion	Rat	LD50 > 5,110 mg/kg

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

Name	Species	Value
Alumina Trihydrate	Rabbit	No significant irritation
CRISTOBALITE	Professio	No significant irritation
	nal	-

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SILOXANES AND SILICONES, DI-ME, VINYL GROUP-TERMINATED	Rabbit	No significant irritation
White mineral oil (petroleum)	Rabbit	No significant irritation
AMORPHOUS SILICA	Rabbit	No significant irritation
QUARTZ	Professio	No significant irritation
	nal	
	judgeme	
	nt	

**Serious Eye Damage/Irritation** 

Name		Value
Alumina Trihydrate	Rabbit	No significant irritation
SILOXANES AND SILICONES, DI-ME, VINYL GROUP-TERMINATED	Rabbit	Mild irritant
White mineral oil (petroleum)	Rabbit	Mild irritant
AMORPHOUS SILICA	Rabbit	No significant irritation

## **Skin Sensitization**

Name	Species	Value
Alumina Trihydrate	Guinea	Not classified
	pig	
White mineral oil (petroleum)	Guinea	Not classified
	pig	
AMORPHOUS 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
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
White mineral oil (petroleum)	In Vitro	Not mutagenic
AMORPHOUS SILICA	In Vitro	Not mutagenic
QUARTZ	In Vitro	Some positive data exist, but the data are not sufficient for classification
QUARTZ	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Alumina Trihydrate	Not	Multiple	Not carcinogenic
•	Specified	animal	
		species	
CRISTOBALITE	Inhalation	Human	Carcinogenic
		and	
		animal	
White mineral oil (petroleum)	Dermal	Mouse	Not carcinogenic
White mineral oil (petroleum)	Inhalation	Multiple	Not carcinogenic
,		animal	
		species	
AMORPHOUS SILICA	Not	Mouse	Some positive data exist, but the data are not
	Specified		sufficient for classification
QUARTZ	Inhalation	Human	Carcinogenic
		and	
		animal	

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### Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Alumina Trihydrate	Ingestion	Not classified for development	Rat	NOAEL 768 mg/kg/day	during organogenesi s
White mineral oil (petroleum)	Ingestion	Not classified for female reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
White mineral oil (petroleum)	Ingestion	Not classified for male reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
White mineral oil (petroleum)	Ingestion	Not classified for development	Rat	NOAEL 4,350 mg/kg/day	during gestation
AMORPHOUS SILICA	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
AMORPHOUS SILICA	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
AMORPHOUS 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**

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
White mineral oil (petroleum)	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,381 mg/kg/day	90 days
White mineral oil (petroleum)	Ingestion	liver   immune system	Not classified	Rat	NOAEL 1,336 mg/kg/day	90 days
AMORPHOUS SILICA	Inhalation	respiratory system   silicosis	Not classified	Human	NOAEL Not available	occupational exposure
QUARTZ	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure

**Aspiration Hazard** 

aspiration Hazara	
Name	Value
White mineral oil (petroleum)	A spiration 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.

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. If no other disposal options are available, waste product 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.

### **EPCRA 311/312 Hazard Classifications:**

### Physical Hazards

Not applicable

#### **Health Hazards**

Not applicable

#### 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: 0 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

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the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Document Group:22-6627-8Version Number:4.01Issue Date:02/22/21Supercedes Date:02/25/16

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