Safety Data Sheet

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Document Group: 16-5656-0
Issue Date: 07/12/18
Version Number: 9.00
Supercedes Date: 02/24/15

Product identifier
3M™ ESPE™ IMPREGUM PENTA SOFT/ IMPREGUM PENTA SOFT MB/ IMPREGUM PENTA SOFT HB/ IMPREGUM GARANT L DUOSOFT/ IMPREGUM GRARANT SOFT LB PLUS ADHESIVE

ID Number(s):
70-2011-3411-4, 70-2011-3797-6

Recommended use
Dental Material, IMPRESSIONS

Restrictions on use
For use only by dental professionals

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:
16-5565-3, 16-2740-5, 16-2742-1, 35-4551-4, 16-5566-1

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Safety Data Sheet

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Document Group: 35-4551-4
Issue Date: 09/24/19
Version Number: 1.06
Supercedes Date: 12/28/17

SECTION 1: Identification

1.1. Product identifier
3M™ Polyether Adhesive - New Formulation

Product Identification Numbers
LE-F100-1876-7, 70-2011-4439-4
7100059325

1.2. Recommended use and restrictions on use

Recommended use
Dental Product, Tray Adhesive

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 2.
Specific Target Organ Toxicity (single exposure): Category 3.

2.2. Label elements
Signal word
Danger
Symbols
Flame | Exclamation mark |

Pictograms

Hazard Statements
Highly flammable liquid and vapor.
May cause drowsiness or dizziness.

Precautionary Statements

Prevention:
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Keep container tightly closed.
Use explosion-proof electrical/ventilating/lighting equipment.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only in a well-ventilated area.
Wear protective gloves and eye/face protection.

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.
Call a POISON CENTER or doctor/physician if you feel unwell.
In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

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

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

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>% by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYL ACETATE</td>
<td>141-78-6</td>
<td>40 - 60</td>
</tr>
<tr>
<td>HYDROXY-TERMINATED DIMETHYLSILOXANE, REACTION PRODUCTS WITH CHLOROTRIMETHYLSILANE, HYDROCHLORIC ACID, ISOPROPYL ALCOHOL, AND SODIUM SILICATE</td>
<td>68440-70-0</td>
<td>40 - 60</td>
</tr>
</tbody>
</table>

*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. 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.

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

6.2. Environmental precautions  
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up  
Contain spill. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label.
and SDS. 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing 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.

7.2. Conditions for safe storage including any incompatibilities

## 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.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>Agency</th>
<th>Limit type</th>
<th>Additional Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYL ACETATE</td>
<td>141-78-6</td>
<td>OSHA</td>
<td>TWA:1400 mg/m3(400 ppm)</td>
<td></td>
</tr>
<tr>
<td>ETHYL ACETATE</td>
<td>141-78-6</td>
<td>ACGIH</td>
<td>TWA:400 ppm</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Red</td>
</tr>
<tr>
<td>Specific Physical Form:</td>
<td>Viscous</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic Organic solvent</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No Data Available</td>
</tr>
<tr>
<td>pH</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>169 °F</td>
</tr>
<tr>
<td>Flash Point</td>
<td>25 °F [Test Method: Closed Cup]</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flammable Limits (LEL)</td>
<td>1.2 %</td>
</tr>
<tr>
<td>Flammable Limits (UEL)</td>
<td>11.5 %</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>131 mmHg</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>&gt; 1 [Ref Std: AIR=1]</td>
</tr>
<tr>
<td>Density</td>
<td>Approximately 0.9 g/cm³</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>&gt; 0.9 [Ref Std: WATER=1]</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Nil</td>
</tr>
<tr>
<td>Solubility- non-water</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/ water</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Approximately 0.25 Pa-s</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Percent volatile</td>
<td>No Data Available</td>
</tr>
</tbody>
</table>

**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
Sparks and/or flames
Heat

10.5. Incompatible materials
None known.

No Data Available

10.6. Hazardous decomposition products

<table>
<thead>
<tr>
<th>Substance</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon monoxide</td>
<td>Oxidation, heat or reaction</td>
</tr>
</tbody>
</table>
SECTION 11: Toxicological information

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

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

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

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

May cause additional health effects (see below).

Skin Contact:
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.

May cause additional health effects (see below).

Additional Health Effects:

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

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall product</td>
<td>Ingestion</td>
<td></td>
<td>No data available; calculated ATE &gt;5,000 mg/kg</td>
</tr>
<tr>
<td>ETHYL ACETATE</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 &gt; 18,000 mg/kg</td>
</tr>
<tr>
<td>ETHYL ACETATE</td>
<td>Inhalation-Vapor (4 hours)</td>
<td>Rat</td>
<td>LC50 70.5 mg/l</td>
</tr>
<tr>
<td>ETHYL ACETATE</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 5,620 mg/kg</td>
</tr>
</tbody>
</table>
ATE = acute toxicity estimate

### Skin Corrosion/Irritation

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYL ACETATE</td>
<td>Rabbit</td>
<td>Minimal irritation</td>
</tr>
</tbody>
</table>

### Serious Eye Damage/Irritation

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYL ACETATE</td>
<td>Rabbit</td>
<td>Mild irritant</td>
</tr>
</tbody>
</table>

### Skin Sensitization

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYL ACETATE</td>
<td>Guinea pig</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

### Respiratory Sensitization

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

### Germ Cell Mutagenicity

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYL ACETATE</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
</tr>
<tr>
<td>ETHYL ACETATE</td>
<td>In vivo</td>
<td>Not mutagenic</td>
</tr>
</tbody>
</table>

### Carcinogenicity

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

### Reproductive Toxicity

### Reproductive and/or Developmental Effects

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

### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Target Organ(s)</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYL ACETATE</td>
<td>Inhalation</td>
<td>central nervous system depression</td>
<td>May cause drowsiness or dizziness</td>
<td>Human</td>
<td>NOAEL Not available</td>
<td></td>
</tr>
<tr>
<td>ETHYL ACETATE</td>
<td>Inhalation</td>
<td>respiratory irritation</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
<td>Human</td>
<td>NOAEL Not available</td>
<td></td>
</tr>
<tr>
<td>ETHYL ACETATE</td>
<td>Ingestion</td>
<td>central nervous system depression</td>
<td>May cause drowsiness or dizziness</td>
<td>Human</td>
<td>NOAEL Not available</td>
<td></td>
</tr>
</tbody>
</table>

#### Specific Target Organ Toxicity - repeated exposure

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Target Organ(s)</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYL ACETATE</td>
<td>Inhalation</td>
<td>endocrine system</td>
<td>liver</td>
<td>nervous system</td>
<td>Not classified</td>
<td>Rat</td>
</tr>
<tr>
<td>ETHYL ACETATE</td>
<td>Inhalation</td>
<td>hematopoietic system</td>
<td>Not classified</td>
<td>Rabbit</td>
<td>LOAEL 16 mg/l</td>
<td>40 days</td>
</tr>
<tr>
<td>ETHYL ACETATE</td>
<td>Ingestion</td>
<td>hematopoietic system</td>
<td>liver</td>
<td>kidney and/or bladder</td>
<td>Not classified</td>
<td>Rat</td>
</tr>
</tbody>
</table>
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.

Incinerate in a permitted waste incineration facility.

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.

EPCRA 311/312 Hazard Classifications:
Physical Hazards
Flammable (gases, aerosols, liquids, or solids)

Health Hazards
Specific target organ toxicity (single or repeated exposure)

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.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.
This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

15.4. International Regulations
Contact 3M for more information.

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

SECTION 16: Other information

NFPA Hazard Classification
Health: 1 Flammability: 3 Instability: 0 Special Hazards: None

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

Document Group: 35-4551-4 Version Number: 1.06
Issue Date: 09/24/19 Supersedes Date: 12/28/17

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Document Group:  16-2740-5
Issue Date:  03/09/20

SECTION 1: Identification

1.1. Product identifier
3M™ ESPE™ Impregum™ Penta™ Soft Base Paste

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

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2.1. Hazard classification
Skin Sensitizer: Category 1A.

2.2. Label elements
Signal word
Warning
Hazard Statements
May cause an allergic skin reaction.

Precautionary Statements

Prevention:
Wear protective gloves.
Contaminated work clothing must not be allowed out of the workplace.

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

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

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>% by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyether</td>
<td>110531-92-5</td>
<td>40 - 60 Trade Secret *</td>
</tr>
<tr>
<td>FATTY ACID TRIGLYCERIDES</td>
<td>67701-27-3</td>
<td>10 - 30 Trade Secret *</td>
</tr>
<tr>
<td>POLYMERIC ACETATE</td>
<td>91825-26-2</td>
<td>1 - 20 Trade Secret *</td>
</tr>
<tr>
<td>DIBENZYL TOLUENE</td>
<td>26898-17-9</td>
<td>1 - 10 Trade Secret *</td>
</tr>
<tr>
<td>Flux calcined diatomaceous earth (cristobalite 1 - &lt;10%)</td>
<td>68855-54-9</td>
<td>1 - 10 Trade Secret *</td>
</tr>
<tr>
<td>1-DODECYLIMIDAZOLE</td>
<td>4303-67-7</td>
<td>&lt; 1 Trade Secret *</td>
</tr>
<tr>
<td>Oils, mint, Mentha arvensis piperascensis, var. piperascens, Labiatae.</td>
<td>68917-18-0</td>
<td>&lt; 0.5 Trade Secret *</td>
</tr>
<tr>
<td>Spearmint, Mentha spicata crispa, ext.</td>
<td>98561-44-5</td>
<td>&lt; 0.5 Trade Secret *</td>
</tr>
</tbody>
</table>

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

SECTION 4: First aid measures

4.1. Description of first aid measures

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

Skin Contact:
Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.
Eye Contact:
No need for first aid is anticipated.

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

4.2. Most important symptoms and effects, both acute and delayed
See Section 11.1. Information on toxicological effects.

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

SECTION 5: Fire-fighting measures

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

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

Hazardous Decomposition or By-Products

<table>
<thead>
<tr>
<th>Substance</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon monoxide</td>
<td>During Combustion</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>During Combustion</td>
</tr>
<tr>
<td>Irritant Vapors or Gases</td>
<td>During Combustion</td>
</tr>
</tbody>
</table>

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 (e.g. 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.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>Agency</th>
<th>Limit type</th>
<th>Additional Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cristobalite</td>
<td>68855-54-9</td>
<td>ACGIH</td>
<td>TWA (respirable fraction): 0.025 mg/m³</td>
<td>A2: Suspected human carcin.</td>
</tr>
<tr>
<td>Cristobalite</td>
<td>68855-54-9</td>
<td>OSHA</td>
<td>TWA concentration (respirable): 0.05 mg/m³ (1.2 millions of particles/cu. ft.); TWA: 0.05 mg/m³</td>
<td></td>
</tr>
<tr>
<td>SILICA, AMORPHOUS</td>
<td>68855-54-9</td>
<td>OSHA</td>
<td>TWA concentration: 0.8 mg/m³; TWA: 20 millions of particles/cu. ft.</td>
<td></td>
</tr>
</tbody>
</table>

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: Multicolor
Specific Physical Form: Paste
Odor Minty
Odor threshold No Data Available
pH No Data Available
Melting point No Data Available
Boiling Point Not Applicable
Flash Point Flash point > 93 °C (200 °F)
Evaporation rate Not Applicable
Flammability (solid, gas) Not Classified
Flammable Limits(LEL) Not Applicable
Flammable Limits(UEL) Not Applicable
Vapor Pressure Not Applicable
Vapor Density Not Applicable
Density No Data Available
Specific Gravity 1.0 - 1.2 [Ref Std: WATER=1]
Solubility in Water Nil
Solubility- non-water No Data Available
Partition coefficient: n-octanol/ water No Data Available
Autoignition temperature No Data Available
Decomposition temperature No Data Available
Viscosity No Data Available
Volatile Organic Compounds Not Applicable
Percent volatile Not Applicable
VOC Less H2O & Exempt Solvents Not Applicable

SECTION 10: Stability and reactivity

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

10.2. Chemical stability
Stable.

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

10.4. Conditions to avoid
Heat

10.5. Incompatible materials
Strong acids
Strong bases
Strong oxidizing agents

10.6. Hazardous decomposition products

<table>
<thead>
<tr>
<th>Substance</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>None known.</td>
<td></td>
</tr>
</tbody>
</table>

Refer to section 5.2 for hazardous decomposition products during combustion.
SECTION 11: Toxicological information

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

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

The information below represents toxicological information associated with the individual components of the uncured product. Once properly mixed and/or cured, the product is safe for its intended use.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

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

Skin Contact:
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:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No.</th>
<th>Class Description</th>
<th>Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>SILICA, CRYSTAL AIRRESP</td>
<td>68855-54-9</td>
<td>Grp. 1: Carcinogenic to humans</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>SILICA, CRYSTAL AIRRESP</td>
<td>68855-54-9</td>
<td>Known human carcinogen</td>
<td>National Toxicology Program Carcinogens</td>
</tr>
<tr>
<td>Generic: Cristobalite</td>
<td>68855-54-9</td>
<td>Grp. 1: Carcinogenic to humans</td>
<td>International Agency for Research on Cancer</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall product</td>
<td>Dermal</td>
<td>No data available; calculated ATE &gt;5,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Overall product</td>
<td>Ingestion</td>
<td>No data available; calculated ATE &gt;5,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Polyether</td>
<td>Dermal</td>
<td>Professio nal judgeme nt</td>
<td>LD50 Not applicable</td>
</tr>
<tr>
<td>Polyether</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 2,000 mg/kg</td>
</tr>
</tbody>
</table>
### FATTY ACID TRIGLYCERIDES
- **Dermal** Rabbit LD50 > 2,000 mg/kg
- **Ingestion** Rat LD50 > 2,000 mg/kg

### POLYMERIC ACETATE
- **Dermal** Professional judgment LD50 estimated to be > 5,000 mg/kg
- **Ingestion** Rat LD50 > 2,000 mg/kg

### DIBENZYL TOLUENE
- **Dermal** Rabbit LD50 > 2,000 mg/kg
- **Ingestion** Rat LD50 > 2,000 mg/kg

### DIBENZYL TOLUENE (crystalline)
- **Dermal** Rabbit LD50 > 10,360 mg/kg

### DIBENZYL TOLUENE (crystalline)
- **Inhalation-Dust/Mist (4 hours)** Rat LC50 > 2.7 mg/l

### 1-DODECYLIMIDAZOLE
- **Ingestion** Rat LD50 641 mg/kg

### Oils, mint, Mentha arvensis piperascenssis, var. piperascens, Labiatae.
- **Dermal** Rabbit LD50 > 5,000 mg/kg
- **Ingestion** Rat LD50 1,240 mg/kg

#### Skin Corrosion/Irritation

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyether</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>DIBENZYL TOLUENE (crystalline)</td>
<td></td>
<td>No significant irritation</td>
</tr>
<tr>
<td>1-DODECYLIMIDAZOLE</td>
<td>Rabbit</td>
<td>Mild irritant</td>
</tr>
<tr>
<td>Oils, mint, Mentha arvensis piperascenssis, var. piperascens, Labiatae.</td>
<td>Rabbit</td>
<td>Mild irritant</td>
</tr>
<tr>
<td>Spearmint, Mentha spicata crispa, ext.</td>
<td></td>
<td>Irritant</td>
</tr>
</tbody>
</table>

#### Serious Eye Damage/Irritation

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall product</td>
<td>In vitro data</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>Polyether</td>
<td>Rabbit</td>
<td>Moderate irritant</td>
</tr>
<tr>
<td>DIBENZYL TOLUENE (crystalline)</td>
<td>Rabbit</td>
<td>Mild irritant</td>
</tr>
<tr>
<td>1-DODECYLIMIDAZOLE</td>
<td>In vitro data</td>
<td>Severe irritant</td>
</tr>
<tr>
<td>Oils, mint, Mentha arvensis piperascenssis, var. piperascens, Labiatae.</td>
<td>In vitro data</td>
<td>Severe irritant</td>
</tr>
</tbody>
</table>

#### Skin Sensitization

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyether</td>
<td>Guinea pig</td>
<td>Not classified</td>
</tr>
<tr>
<td>DIBENZYL TOLUENE (crystalline)</td>
<td>Mouse</td>
<td>Not classified</td>
</tr>
<tr>
<td>1-DODECYLIMIDAZOLE</td>
<td>Mouse</td>
<td>Sensitizing</td>
</tr>
<tr>
<td>Oils, mint, Mentha arvensis piperascenssis, var. piperascens, Labiatae.</td>
<td>Guinea pig</td>
<td>Sensitizing</td>
</tr>
<tr>
<td>Spearmint, Mentha spicata crispa, ext.</td>
<td></td>
<td>Sensitizing</td>
</tr>
</tbody>
</table>

#### Respiratory Sensitization

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

### Germ Cell Mutagenicity

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
</table>

---

ATE = acute toxicity estimate
Polyether

PolyMERIC ACETATE

Flux calcined diatomaceous earth (cristobalite 1 - <10%)

1-DOODECILIMIDAZOLE

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymeryc Acetate</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
<td></td>
</tr>
<tr>
<td>Flux calcined diatomaceous earth (cristobalite 1 - &lt;10%)</td>
<td>In Vitro</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
<td></td>
</tr>
<tr>
<td>1-Dodecylimidazole</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
<td></td>
</tr>
</tbody>
</table>

Carcinogenicity

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flux calcined diatomaceous earth (cristobalite 1 - &lt;10%)</td>
<td>Inhalation</td>
<td>Human and animal</td>
<td>Carcinogenic</td>
</tr>
</tbody>
</table>

Reproductive Toxicity

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

Target Organ(s)

Specific Target Organ Toxicity - single exposure
For the component/components, either no data are currently available or the data are not sufficient for classification.

Specific Target Organ Toxicity - repeated exposure

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Target Organ(s)</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flux calcined diatomaceous earth (cristobalite 1 - &lt;10%)</td>
<td>Inhalation</td>
<td>silicosis</td>
<td>Causes damage to organs through prolonged or repeated exposure</td>
<td>Human</td>
<td>NOAEL Not available</td>
<td>occupational exposure</td>
</tr>
<tr>
<td>Flux calcined diatomaceous earth (cristobalite 1 - &lt;10%)</td>
<td>Ingestion</td>
<td>hematopoietic system</td>
<td>eyes, kidney and/or bladder</td>
<td>Not classified</td>
<td>Rat</td>
<td>NOAEL 3,738 mg/kg/day</td>
</tr>
</tbody>
</table>

Aspiration Hazard

<table>
<thead>
<tr>
<th>Name</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spearmint, Mentha spicata crispa, ext.</td>
<td>Aspiration hazard</td>
</tr>
</tbody>
</table>

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

SECTION 12: Ecological information

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

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

SECTION 13: Disposal considerations

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

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste...
incineration facility.

EPA Hazardous Waste Number (RCRA): D005 (Barium)

**SECTION 14: Transport Information**

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

**SECTION 15: Regulatory information**

15.1. US Federal Regulations  
Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:

- **Physical Hazards**  
  Not applicable

- **Health Hazards**  
  Respiratory or Skin Sensitization

15.2. State Regulations  
Contact 3M for more information.

15.3. Chemical Inventories  
This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.  
Contact 3M for more information.

15.4. International Regulations  
Contact 3M for more information.

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

**SECTION 16: Other information**

**NFPA Hazard Classification**

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

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

**Document Group:** 16-2740-5  
**Issue Date:** 03/09/20  
**Version Number:** 16.00  
**Supersedes Date:** 07/29/19

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3M USA SDSs are available at www.3M.com
SECTION 1: Identification

1.1. Product identifier
3M™ Impregum™ Penta™ Soft Catalyst

Product Identification Numbers
CA-ESPE-3173-1, LE-FSFD-3173-8, 41-8650-1184-9
4010029020

1.2. Recommended use and restrictions on use

Recommended use
Dental Product, Impression Material

Restrictions on use
For use only by dental professionals in approved indications.

1.3. Supplier’s details
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)
Danger

Symbols
Exclamation mark | Health Hazard |

Pictograms

Hazard Statements
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.

Causes damage to organs through prolonged or repeated ingestion exposure:
- blood or blood-forming organs |

May cause damage to organs through prolonged or repeated ingestion exposure:
- respiratory system |
- sensory organs |

Precautionary Statements

Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves.
Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.

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

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

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>% by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>CITRIC ESTER</td>
<td>77-90-7</td>
<td>30 - 50 Trade Secret *</td>
</tr>
<tr>
<td>Flux calcined diatomaceous earth (cristobalite 1 - &lt;10%)</td>
<td>68855-54-9</td>
<td>10 - 30 Trade Secret *</td>
</tr>
<tr>
<td>SILANE TREATED SILICA</td>
<td>68909-20-6</td>
<td>10 - 30 Trade Secret *</td>
</tr>
<tr>
<td>SULFONIUM SALT</td>
<td>72140-65-9</td>
<td>10 - 30 Trade Secret *</td>
</tr>
<tr>
<td>POLYETHYLENE-POLYPROPYLENE GLYCOL</td>
<td>9003-11-6</td>
<td>1 - 10 Trade Secret *</td>
</tr>
</tbody>
</table>

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.
SECTION 4: First aid measures

4.1. Description of first aid measures

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

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

**Eye Contact:**
No need for first aid is anticipated.

**If Swallowed:**
Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed
See Section 11.1. Information on toxicological effects.

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

SECTION 5: Fire-fighting measures

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

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon monoxide</td>
<td>During Combustion</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>During Combustion</td>
</tr>
<tr>
<td>Irritant Vapors or Gases</td>
<td>During Combustion</td>
</tr>
</tbody>
</table>

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
SECTION 7: Handling and storage

7.1. Precautions for safe handling
Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Do not get in eyes. Use personal protective equipment (gloves, respirators, etc.) as required. A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove.

7.2. Conditions for safe storage including any incompatibilities
Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>Agency</th>
<th>Limit type</th>
<th>Additional Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cristobalite</td>
<td>68855-54-9</td>
<td>ACGIH</td>
<td>TWA(respirable fraction):0.025 mg/m3</td>
<td>A2: Suspected human carcin.</td>
</tr>
<tr>
<td>Cristobalite</td>
<td>68855-54-9</td>
<td>OSHA</td>
<td>TWA concentration( respirable):0.05 mg/m3(1.2 millions of particles/cu. ft.); TWA:0.05 mg/m3</td>
<td></td>
</tr>
<tr>
<td>SILICA, AMORPHOUS</td>
<td>68855-54-9</td>
<td>OSHA</td>
<td>TWA concentration:0.8 mg/m3; TWA:20 millions of particles/cu. ft.</td>
<td></td>
</tr>
<tr>
<td>SILICA, AMORPHOUS</td>
<td>68909-20-6</td>
<td>OSHA</td>
<td>TWA concentration:0.8 mg/m3; TWA:20 millions of particles/cu. ft.</td>
<td></td>
</tr>
</tbody>
</table>

ACGIH : American Conference of Governmental Industrial Hygienists
AIIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
OSHA : United States Department of Labor - Occupational Safety and Health Administration
TWA : Time-Weighted-Average
STEL : Short Term Exposure Limit
CEIL : Ceiling

8.2. Exposure controls

8.2.1. Engineering controls
Use in a well-ventilated area.

8.2.2. Personal protective equipment (PPE)

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

Skin/hand protection
See Section 7.1 for additional information on skin protection.

Respiratory protection
None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- **General Physical Form:** Solid
- **Specific Physical Form:** Paste
- **Odor, Color, Grade:** Dark red color, slightly acrid odor
- **Odor threshold:** No Data Available
- **pH:** No Data Available
- **Melting point:** No Data Available
- **Boiling Point:** Not Applicable
- **Flash Point:** Flash point > 93 °C (200 °F)
- **Evaporation rate:** Not Applicable
- **Flammability (solid, gas):** Not Classified
- **Flammable Limits (LEL):** Not Applicable
- **Flammable Limits (UEL):** Not Applicable
- **Vapor Pressure:** Not Applicable
- **Vapor Density:** Not Applicable
- **Density:** No Data Available
- **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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>None known.</td>
<td></td>
</tr>
</tbody>
</table>

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

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

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

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

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

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

Ingestion:
May be harmful if swallowed.
  Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.
  May cause additional health effects (see below).

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:
Ocular Effects: Signs/symptoms may include blurred or significantly impaired vision.
  Bone Marrow Effects: Signs/symptoms may include generalized weakness, pallor of the skin, fatty infiltration of the bone marrow, decreases in the numbers of circulating blood cells, increased susceptibility to infection.
  Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart
rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

**Reproductive/Developmental Toxicity:**
Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

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

### 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

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall product</td>
<td>Ingestion</td>
<td></td>
<td>No data available; calculated ATE 2,000 - 5,000 mg/kg</td>
</tr>
<tr>
<td>CITRIC ESTER</td>
<td>Dermal</td>
<td>Professio nal judgemen t</td>
<td>LD50 estimated to be &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>CITRIC ESTER</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 25,000 mg/kg</td>
</tr>
<tr>
<td>SILANE TREATED SILICA</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>SILANE TREATED SILICA</td>
<td>Inhalation-</td>
<td>Rat</td>
<td>LC50 &gt; 0.691 mg/l</td>
</tr>
<tr>
<td></td>
<td>Dust/Mist (4 hours)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SILANE TREATED SILICA</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 5,110 mg/kg</td>
</tr>
<tr>
<td>SULFONIUM SALT</td>
<td>Dermal</td>
<td>Rat</td>
<td>LD50 &gt; 2,000 mg/kg</td>
</tr>
<tr>
<td>SULFONIUM SALT</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 300-2,000 mg/kg</td>
</tr>
<tr>
<td>Flux calcined diatomaceous earth</td>
<td>Dermal</td>
<td>Professio nal judgemen t</td>
<td>LD50 estimated to be &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>(cristobalite 1 - &lt;10%)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flux calcined diatomaceous earth</td>
<td>Inhalation-</td>
<td>Rat</td>
<td>LC50 &gt; 2.7 mg/l</td>
</tr>
<tr>
<td>(cristobalite 1 - &lt;10%)</td>
<td>Dust/Mist (4 hours)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flux calcined diatomaceous earth</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 2,000 mg/kg</td>
</tr>
<tr>
<td>(cristobalite 1 - &lt;10%)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>POLYETHYLENE-POLYPROPYLENE GLYCOL</td>
<td>Dermal</td>
<td>Professio nal judgemen t</td>
<td>LD50 estimated to be &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>POLYETHYLENE-POLYPROPYLENE GLYCOL</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 5,700 mg/kg</td>
</tr>
</tbody>
</table>

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SILANE TREATED SILICA</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>SULFONIUM SALT</td>
<td>Rabbit</td>
<td>Mild irritant</td>
</tr>
<tr>
<td>Flux calcined diatomaceous earth</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>(cristobalite 1 - &lt;10%)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Serious Eye Damage/Irritation

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SILANE TREATED SILICA</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>SULFONIUM SALT</td>
<td>Rabbit</td>
<td>Mild irritant</td>
</tr>
</tbody>
</table>
Flux calcined diatomaceous earth (cristobalite 1 - <10\%)

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SILANE TREATED SILICA</td>
<td>Human and animal</td>
<td>Not classified</td>
</tr>
<tr>
<td>SULFONIUM SALT</td>
<td>Mouse</td>
<td>Sensitizing</td>
</tr>
<tr>
<td>Flux calcined diatomaceous earth (cristobalite 1 - &lt;10%)</td>
<td>Mouse</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

**Skin Sensitization**

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

**Germ Cell Mutagenicity**

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SILANE TREATED SILICA</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
</tr>
<tr>
<td>SULFONIUM SALT</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
</tr>
<tr>
<td>Flux calcined diatomaceous earth (cristobalite 1 - &lt;10%)</td>
<td>In Vitro</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
</tbody>
</table>

**Carcinogenicity**

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SILANE TREATED SILICA</td>
<td></td>
<td>Mouse</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>Flux calcined diatomaceous earth (cristobalite 1 - &lt;10%)</td>
<td>Inhalation</td>
<td>Human and animal</td>
<td>Carcinogenic</td>
</tr>
</tbody>
</table>

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>SILANE TREATED SILICA</td>
<td>Ingestion</td>
<td>Not classified for female reproduction</td>
<td>Rat</td>
<td>NOAEL 509 mg/kg/day</td>
<td>1 generation</td>
</tr>
<tr>
<td>SILANE TREATED SILICA</td>
<td>Ingestion</td>
<td>Not classified for male reproduction</td>
<td>Rat</td>
<td>NOAEL 497 mg/kg/day</td>
<td>1 generation</td>
</tr>
<tr>
<td>SILANE TREATED SILICA</td>
<td>Ingestion</td>
<td>Not classified for development</td>
<td>Rat</td>
<td>NOAEL 1,350 mg/kg/day</td>
<td>during organogenesis</td>
</tr>
<tr>
<td>SULFONIUM SALT</td>
<td>Ingestion</td>
<td>Not classified for development</td>
<td>Rat</td>
<td>NOAEL 100 mg/kg/day</td>
<td>premating into lactation</td>
</tr>
<tr>
<td>SULFONIUM SALT</td>
<td>Ingestion</td>
<td>Toxic to female reproduction</td>
<td>Rat</td>
<td>NOAEL 30 mg/kg/day</td>
<td>premating into lactation</td>
</tr>
<tr>
<td>SULFONIUM SALT</td>
<td>Ingestion</td>
<td>Toxic to male reproduction</td>
<td>Rat</td>
<td>NOAEL 30 mg/kg/day</td>
<td>30 days</td>
</tr>
</tbody>
</table>

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Target Organ(s)</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>SULFONIUM SALT</td>
<td>Ingestion</td>
<td>respiratory system</td>
<td>Not classified</td>
<td>Rat</td>
<td>NOAEL 300 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

**Specific Target Organ Toxicity - repeated exposure**

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Target Organ(s)</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>SILANE TREATED SILICA</td>
<td>Inhalation</td>
<td>respiratory system</td>
<td>Not classified</td>
<td>Human</td>
<td>NOAEL Not available</td>
<td>occupational exposure</td>
</tr>
<tr>
<td>SULFONIUM SALT</td>
<td>Ingestion</td>
<td>bone marrow</td>
<td>Causes damage to organs through</td>
<td>Rat</td>
<td>NOAEL 10</td>
<td>30 days</td>
</tr>
</tbody>
</table>
### SULFONIUM SALT

**Ingestion**
- Respiratory system: May cause damage to organs though prolonged or repeated exposure (Rat, NOAEL 30 mg/kg/day, 30 days)
- Eyes: May cause damage to organs though prolonged or repeated exposure (Rat, NOAEL 100 mg/kg/day, 30 days)
- Hematopoietic system, liver, immune system, kidney and/or bladder: Not classified (Rat, NOAEL 300 mg/kg/day, 30 days)
- Gastrointestinal tract: Not classified (Rat, NOAEL 30 mg/kg/day, 30 days)
- Auditory system, heart, skin, kidney and/or bladder, endocrine system, bone, teeth, nails, and/or hair, muscles, nervous system, vascular system: Not classified (Rat, NOAEL 3,738 mg/kg/day, 90 days)

**Inhalation**
- Silicosis: Causes damage to organs through prolonged or repeated exposure (Human, NOAEL Not available, occupational exposure)

**Flux calcined diatomaceous earth (cristobalite 1 - <10%)**
- Hematopoietic system, eyes, kidney and/or bladder: Not classified (Rat, NOAEL 3,738 mg/kg/day, 90 days)

### Aspiration Hazard

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

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

### SECTION 12: Ecological information

**Ecotoxicological information**

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

**Chemical fate information**

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

### SECTION 13: Disposal considerations

13.1. Disposal methods

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

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

**EPA Hazardous Waste Number (RCRA):** Not regulated
SECTION 14: Transport Information

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

SECTION 15: Regulatory information

15.1. US Federal Regulations
Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:

Physical Hazards
Not applicable

Health Hazards
Reproductive toxicity
Respiratory or Skin Sensitization
Specific target organ toxicity (single or repeated exposure)

15.2. State Regulations
Contact 3M for more information.

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

Contact 3M for more information.

15.4. International Regulations
Contact 3M for more information.

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

SECTION 16: Other information

NFPA Hazard Classification
Health: 2 Flammability: 1 Instability: 0 Special Hazards: None

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

Document Group: 16-2742-1
Issue Date: 01/08/19
Version Number: 10.00
Supercedes Date: 01/18/18

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Safety Data Sheet

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Document Group: 16-5565-3
Issue Date: 11/02/16
Version Number: 5.00
Supercedes Date: 02/25/16

SECTION 1: Identification

1.1. Product identifier
IMPREGUM GARANT L DUOSOFT/ IMPREGUM GARANT SOFT LB BASE Paste

Product Identification Numbers
LE-FSFD-3061-2

1.2. Recommended use and restrictions on use

Recommended use
Dental Product, Impression material

Restrictions on use
For use only by dental professionals

1.3. Supplier’s details

MANUFACTURER: 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.

2.3. Hazards not otherwise classified
None.

SECTION 3: Composition/information on ingredients

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

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

SECTION 4: First aid measures
4.1. Description of first aid measures

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

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

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

**If Swallowed:**
Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed
See Section 11.1. Information on toxicological effects.

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

SECTION 5: Fire-fighting measures

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

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

<table>
<thead>
<tr>
<th>Hazardous Decomposition or By-Products</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Substance</strong></td>
</tr>
<tr>
<td>Carbon monoxide</td>
</tr>
<tr>
<td>Carbon dioxide</td>
</tr>
<tr>
<td>Irritant Vapors or Gases</td>
</tr>
<tr>
<td><strong>Condition</strong></td>
</tr>
<tr>
<td>During Combustion</td>
</tr>
<tr>
<td>During Combustion</td>
</tr>
<tr>
<td>During Combustion</td>
</tr>
</tbody>
</table>

5.3. Special protective actions for fire-fighters
No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

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

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.
SECTION 7: Handling and storage

7.1. Precautions for safe handling
Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chronic 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.

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

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

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

### 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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>None known.</td>
<td></td>
</tr>
</tbody>
</table>

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

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

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

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

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

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

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

**Additional Health Effects:**

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

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall product</td>
<td>Dermal</td>
<td>No data available; calculated ATE 2,000 - 5,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Overall product</td>
<td>Ingestion</td>
<td>No data available; calculated ATE 2,000 - 5,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>ETHYLENE OXIDE TETRAMETHYLENE OXIDE COPOLYMER</td>
<td>Dermal</td>
<td>Professio nal judgement</td>
<td>LD50 Not applicable</td>
</tr>
<tr>
<td>ETHYLENE OXIDE TETRAMETHYLENE OXIDE COPOLYMER</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 2,000 mg/kg</td>
</tr>
<tr>
<td>DIBENZYL TOLUENE</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 &gt; 2,000 mg/kg</td>
</tr>
<tr>
<td>DIBENZYL TOLUENE</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 10,360 mg/kg</td>
</tr>
<tr>
<td>FATTY ACIDS TRIGLYCERIDES</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 &gt; 2,000 mg/kg</td>
</tr>
<tr>
<td>FATTY ACIDS TRIGLYCERIDES</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 2,000 mg/kg</td>
</tr>
<tr>
<td>CRISTOBALITE</td>
<td>Dermal</td>
<td>Professio nal judgement</td>
<td>LD50 estimated to be &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>CRISTOBALITE</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 estimated to be &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>POLYETHYLENE-POLYPROPYLENE GLYCOL</td>
<td>Dermal</td>
<td>Professio nal judgement</td>
<td>LD50 estimated to be &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>POLYETHYLENE-POLYPROPYLENE GLYCOL</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 5,700 mg/kg</td>
</tr>
<tr>
<td>DIATOMACEOUS EARTH</td>
<td>Dermal</td>
<td>Professio nal judgement</td>
<td>LD50 estimated to be &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>DIATOMACEOUS EARTH</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 2,000 mg/kg</td>
</tr>
<tr>
<td>C.I. PIGMENT WHITE 5</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 15,000 mg/kg</td>
</tr>
<tr>
<td>C.I. PIGMENT WHITE 5</td>
<td>Dermal</td>
<td>Similar compounds</td>
<td>LD50 &gt; 1,000 mg/kg</td>
</tr>
<tr>
<td>C.I. PIGMENT WHITE 5</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 2,52 mg/l</td>
</tr>
<tr>
<td>ACETYL TRIBUTYL CITRATE</td>
<td>Dermal</td>
<td>Professio nal judgement</td>
<td>LD50 estimated to be &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>ACETYL TRIBUTYL CITRATE</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 25,000 mg/kg</td>
</tr>
<tr>
<td>1-DODECYLIMIDAZOLE</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 641 mg/kg</td>
</tr>
<tr>
<td>Mentha arvensis, ext.</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Mentha arvensis, ext.</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 1,240 mg/kg</td>
</tr>
</tbody>
</table>

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYLENE OXIDE TETRAMETHYLENE OXIDE COPOLYMER</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>CRISTOBALITE</td>
<td>Professio nal judgement</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>DIATOMACEOUS EARTH</td>
<td>In vitro data</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>C.I. PIGMENT WHITE 5</td>
<td>Rabbit</td>
<td>Mild irritant</td>
</tr>
<tr>
<td>Mentha arvensis, ext.</td>
<td>Rabbit</td>
<td>Mild irritant</td>
</tr>
</tbody>
</table>
### Serious Eye Damage/Irritation

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYLENE OXIDE TETRAMETHYLENE OXIDE COPOLYMER</td>
<td>Rabbit</td>
<td>Moderate irritant</td>
</tr>
<tr>
<td>DIATOMACEOUS EARTH</td>
<td>Rabbit</td>
<td>Mild irritant</td>
</tr>
<tr>
<td>1-DODECYLIMIDAZOLE</td>
<td>In vitro data</td>
<td>Severe irritant</td>
</tr>
<tr>
<td>Mentha arvensis, ext.</td>
<td>In vitro data</td>
<td>Severe irritant</td>
</tr>
</tbody>
</table>

### Skin Sensitization

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYLENE OXIDE TETRAMETHYLENE OXIDE COPOLYMER</td>
<td>Guinea pig</td>
<td>Not sensitizing</td>
</tr>
<tr>
<td>DIATOMACEOUS EARTH</td>
<td>Mouse</td>
<td>Not sensitizing</td>
</tr>
<tr>
<td>1-DODECYLIMIDAZOLE</td>
<td>Mouse</td>
<td>Sensitizing</td>
</tr>
<tr>
<td>Mentha arvensis, ext.</td>
<td>Guinea pig</td>
<td>Sensitizing</td>
</tr>
</tbody>
</table>

### Respiratory Sensitization

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

### Germ Cell Mutagenicity

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYLENE OXIDE TETRAMETHYLENE OXIDE COPOLYMER</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
</tr>
<tr>
<td>CRISTOBALITE</td>
<td>In Vitro</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>CRISTOBALITE</td>
<td>In vivo</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>DIATOMACEOUS EARTH</td>
<td>In Vitro</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>1-DODECYLIMIDAZOLE</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
</tr>
</tbody>
</table>

### Carcinogenicity

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRISTOBALITE</td>
<td>Inhalation</td>
<td>Human and animal</td>
<td>Carcinogenic</td>
</tr>
<tr>
<td>DIATOMACEOUS EARTH</td>
<td>Inhalation</td>
<td>Human and animal</td>
<td>Carcinogenic</td>
</tr>
</tbody>
</table>

### Reproductive Toxicity

### Reproductive and/or Developmental Effects

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

### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

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

#### Specific Target Organ Toxicity - repeated exposure

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Target Organ(s)</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRISTOBALITE</td>
<td>Inhalation</td>
<td>silicosis</td>
<td>Causes damage to organs through prolonged or repeated exposure</td>
<td>Human</td>
<td>NOAEL Not available</td>
<td>occupational exposure</td>
</tr>
<tr>
<td>DIATOMACEOUS EARTH</td>
<td>Inhalation</td>
<td>silicosis</td>
<td>Causes damage to organs through prolonged or repeated exposure</td>
<td>Human</td>
<td>NOAEL Not available</td>
<td>occupational exposure</td>
</tr>
</tbody>
</table>
DIATOMACEOUS EARTH | Ingestion | hematopoietic system | eyes | kidney and/or bladder | All data are negative | Rat | NOAEL 3,738 mg/kg/day | 90 days

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

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

**SECTION 12: Ecological information**

Ecotoxicological information

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

Chemical fate information

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

**SECTION 13: Disposal considerations**

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

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

**SECTION 14: Transport Information**

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

**SECTION 15: Regulatory information**

15.1. US Federal Regulations
Contact 3M for more information.

311/312 Hazard Categories:

<table>
<thead>
<tr>
<th>Fire Hazard</th>
<th>Pressure Hazard</th>
<th>Reactivity Hazard</th>
<th>Immediate Hazard</th>
<th>Delayed Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>- No</td>
<td>- No</td>
<td>- No</td>
<td>- Yes</td>
<td>- No</td>
</tr>
</tbody>
</table>

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

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

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.

**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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Safety Data Sheet

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Document Group: 16-5566-1
Issue Date: 07/06/17
Version Number: 7.00
Supercedes Date: 02/25/16

SECTION 1: Identification

1.1. Product identifier
IMPREGUM GARANT L DUOSOFT/ IMPREGUM GARANT SOFT LB CATALYST

Product Identification Numbers
LE-FSFD-6306-1

1.2. Recommended use and restrictions on use

Recommended use
Dental Product, Impression

Restrictions on use
For use only by dental professionals

1.3. Supplier’s details

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 Sensitizer: Category 1B.

2.2. Label elements
Signal word
Warning

Symbols
Exclamation mark |

Pictograms

Hazard Statements
May cause an allergic skin reaction.

Precautionary Statements

Prevention:
Wear protective gloves.
Contaminated work clothing must not be allowed out of the workplace.

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

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

2.3. Hazards not otherwise classified

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>% by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYMERIC ACETATE</td>
<td>91825-26-2</td>
<td>25 - 35 Trade Secret *</td>
</tr>
<tr>
<td>Flux calcined diatomaceous earth (cristobalite 1 - &lt;10%)</td>
<td>68855-54-9</td>
<td>20 - 30 Trade Secret *</td>
</tr>
<tr>
<td>CITRIC ESTER</td>
<td>77-90-7</td>
<td>10 - 20 Trade Secret *</td>
</tr>
<tr>
<td>SULFONIUM SALT</td>
<td>72140-65-9</td>
<td>10 - 19 Trade Secret *</td>
</tr>
<tr>
<td>DIBENZYL TOLUENE</td>
<td>26898-17-9</td>
<td>1 - 10 Trade Secret *</td>
</tr>
<tr>
<td>SILANE TREATEAD SILICA</td>
<td>68909-20-6</td>
<td>1 - 10 Trade Secret *</td>
</tr>
<tr>
<td>FATTY ACIDS TRIGLYCERIDES</td>
<td>67701-27-3</td>
<td>1 - 5 Trade Secret *</td>
</tr>
<tr>
<td>POLYETHYLENE-POLYPROPYLENE GLYCOL</td>
<td>9003-11-6</td>
<td>1 - 5 Trade Secret *</td>
</tr>
</tbody>
</table>

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

SECTION 4: First aid measures

4.1. Description of first aid measures

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

Skin Contact:
Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.
Eye Contact:
No need for first aid is anticipated.

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

4.2. Most important symptoms and effects, both acute and delayed
See Section 11.1. Information on toxicological effects.

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

SECTION 5: Fire-fighting measures

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

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

Hazardous Decomposition or By-Products

<table>
<thead>
<tr>
<th>Substance</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon monoxide</td>
<td>During Combustion</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>During Combustion</td>
</tr>
<tr>
<td>Irritant Vapors or Gases</td>
<td>During Combustion</td>
</tr>
</tbody>
</table>

5.3. Special protective actions for fire-fighters
No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

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

6.2. Environmental precautions
Avoid release to the environment.

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

SECTION 7: Handling and storage

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

7.2. Conditions for safe storage including any incompatibilities
Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents. Store away from amines.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Occupational exposure limits**

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

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>Agency</th>
<th>Limit type</th>
<th>Additional Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cristobalite</td>
<td>68855-54-9</td>
<td>ACGIH</td>
<td>TWA (respirable fraction): 0.025 mg/m³</td>
<td>A2: Suspected human carcin.</td>
</tr>
<tr>
<td>SILICA, AMORPHOUS</td>
<td>68855-54-9</td>
<td>OSHA</td>
<td>TWA concentration: 0.8 mg/m³; TWA: 20 millions of particles/cu. ft.</td>
<td></td>
</tr>
<tr>
<td>Cristobalite</td>
<td>68855-54-9</td>
<td>OSHA</td>
<td>TWA concentration (respirable): 0.05 mg/m³ (1.2 millions of particles/cu. ft.); TWA: 0.05 mg/m³</td>
<td></td>
</tr>
<tr>
<td>SILICA, AMORPHOUS</td>
<td>68909-20-6</td>
<td>OSHA</td>
<td>TWA concentration: 0.8 mg/m³; TWA: 20 millions of particles/cu. ft.</td>
<td></td>
</tr>
</tbody>
</table>

ACGIH: American Conference of Governmental Industrial Hygienists  
AIHA: American Industrial Hygiene Association  
CMRG: Chemical Manufacturer's Recommended Guidelines  
OSHA: United States Department of Labor - Occupational Safety and Health Administration  
TWA: Time-Weighted-Average  
STEL: Short Term Exposure Limit  
CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use in a well-ventilated area.

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

**Eye/face protection**

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

- Safety Glasses with side shields

**Skin/hand protection**

See Section 7.1 for additional information on skin protection.

**Respiratory protection**

None required.

## SECTION 9: Physical and chemical properties

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

**General Physical Form:** Solid
Specific Physical Form: Paste
Odor, Color, Grade: slightly characteristic odor, red colored pastes
Odor threshold No Data Available
pH Not Applicable
Melting point No Data Available
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 g/cm³ - 1.2 g/cm³
Specific Gravity 1.1 - 1.2 [Ref Std: WATER=1]
Solubility in Water Negligible
Solubility- non-water No Data Available
Partition coefficient: n-octanol/ water No Data Available
Autoignition temperature Not Applicable
Decomposition temperature No Data Available
Viscosity No Data Available
Molecular weight 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
Amines
Strong acids
Strong bases
Strong oxidizing agents

10.6. Hazardous decomposition products

<table>
<thead>
<tr>
<th>Substance</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>None known.</td>
<td></td>
</tr>
</tbody>
</table>

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information
The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

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

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

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

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

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

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

Additional Health Effects:

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

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No.</th>
<th>Class Description</th>
<th>Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>SILICA, Crys Airresp</td>
<td>68855-54-9</td>
<td>Grp. 1: Carcinogenic to humans</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>SILICA, Crys Airresp</td>
<td>68855-54-9</td>
<td>Known human carcinogen</td>
<td>National Toxicology Program Carcinogens</td>
</tr>
<tr>
<td>Generic: Cristobalite</td>
<td>68855-54-9</td>
<td>Grp. 1: Carcinogenic to humans</td>
<td>International Agency for Research on Cancer</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall product</td>
<td>Dermal</td>
<td>No data available; calculated ATE &gt;5,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Overall product</td>
<td>Ingestion</td>
<td>No data available; calculated ATE 2,000 - 5,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>POLYMERIC ACETATE</td>
<td>Dermal</td>
<td>Professio nial judgement</td>
<td>LD50 estimated to be &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Flux calcined diatomaceous earth (cristobalite 1 - &lt;10%)</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 2,000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Dermal</td>
<td>Professio nial</td>
<td>LD50 estimated to be &gt; 5,000 mg/kg</td>
</tr>
</tbody>
</table>
### Skin Corrosion/Irritation

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flux calcined diatomaceous earth (cristobalite 1 - &lt;10%)</td>
<td>In vitro data</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>SULFONIUM SALT</td>
<td>Rabbit</td>
<td>Mild irritant</td>
</tr>
<tr>
<td>SILANE TREATEAD SILICA</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
</tbody>
</table>

### Serious Eye Damage/Irritation

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flux calcined diatomaceous earth (cristobalite 1 - &lt;10%)</td>
<td>Rabbit</td>
<td>Mild irritant</td>
</tr>
<tr>
<td>SULFONIUM SALT</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>SILANE TREATEAD SILICA</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
</tbody>
</table>

### Skin Sensitization

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flux calcined diatomaceous earth (cristobalite 1 - &lt;10%)</td>
<td>Mouse</td>
<td>Not classified</td>
</tr>
<tr>
<td>SULFONIUM SALT</td>
<td>Mouse</td>
<td>Sensitizing</td>
</tr>
<tr>
<td>SILANE TREATEAD SILICA</td>
<td>Human and animal</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

### Respiratory Sensitization

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

### Germ Cell Mutagenicity

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYMERIC ACETATE</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
</tr>
<tr>
<td>Flux calcined diatomaceous earth (cristobalite 1 - &lt;10%)</td>
<td>In Vitro</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>SULFONIUM SALT</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
</tr>
<tr>
<td>SILANE TREATEAD SILICA</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
</tr>
</tbody>
</table>
Carcinogenicity

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flux calcined diatomaceous earth (cristobalite 1 - &lt;10%)</td>
<td>Inhalation</td>
<td>Human and animal</td>
<td>Carcinogenic</td>
</tr>
<tr>
<td>SILANE TREATEAD SILICA</td>
<td>Not Specified</td>
<td>Mouse</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
</tbody>
</table>

Reproductive Toxicity

Reproductive and/or Developmental Effects

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>SILANE TREATEAD SILICA</td>
<td>Ingestion</td>
<td>Not classified for female reproduction</td>
<td>Rat</td>
<td>NOAEL 509 mg/kg/day</td>
<td>1 generation</td>
</tr>
<tr>
<td>SILANE TREATEAD SILICA</td>
<td>Ingestion</td>
<td>Not classified for male reproduction</td>
<td>Rat</td>
<td>NOAEL 497 mg/kg/day</td>
<td>1 generation</td>
</tr>
<tr>
<td>SILANE TREATEAD SILICA</td>
<td>Ingestion</td>
<td>Not classified for development</td>
<td>Rat</td>
<td>NOAEL 1,350 mg/kg/day</td>
<td>during organogenesis</td>
</tr>
</tbody>
</table>

Target Organ(s)

Specific Target Organ Toxicity - single exposure

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Target Organ(s)</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>SULFONIUM SALT</td>
<td>Ingestion</td>
<td>central nervous system depression</td>
<td>May cause drowsiness or dizziness</td>
<td>Rat</td>
<td>LOAEL 2,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>SULFONIUM SALT</td>
<td>Ingestion</td>
<td>respiratory system</td>
<td>Not classified</td>
<td>Rat</td>
<td>NOAEL 300 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

Specific Target Organ Toxicity - repeated exposure

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Target Organ(s)</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flux calcined diatomaceous earth (cristobalite 1 - &lt;10%)</td>
<td>Inhalation</td>
<td>silicosis</td>
<td>Causes damage to organs through prolonged or repeated exposure</td>
<td>Human</td>
<td>NOAEL Not available</td>
<td>occupational exposure</td>
</tr>
<tr>
<td>Flux calcined diatomaceous earth (cristobalite 1 - &lt;10%)</td>
<td>Ingestion</td>
<td>hematopoietic system</td>
<td>eyes</td>
<td>kidney and/or bladder</td>
<td>Not classified</td>
<td>Rat</td>
</tr>
<tr>
<td>SILANE TREATEAD SILICA</td>
<td>Inhalation</td>
<td>respiratory system</td>
<td>silicosis</td>
<td>Not classified</td>
<td>Human</td>
<td>NOAEL Not available</td>
</tr>
</tbody>
</table>

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

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

**SECTION 12: Ecological information**

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

Chemical fate information
Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.
SECTION 13: Disposal considerations

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

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility.

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

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

SECTION 15: Regulatory information

15.1. US Federal Regulations
Contact 3M for more information.

311/312 Hazard Categories:
- Fire Hazard: No
- Pressure Hazard: No
- Reactivity Hazard: No
- Immediate Hazard: Yes
- Delayed Hazard: No

EPCRA 311/312 Hazard Classifications (effective January 1, 2018):

Physical Hazards
- Not applicable

Health Hazards
- Respiratory or Skin Sensitization

15.2. State Regulations
Contact 3M for more information.

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

Contact 3M for more information.

15.4. International Regulations
Contact 3M for more information.

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

SECTION 16: Other information

NFPA Hazard Classification
- Health: 2
- Flammability: 1
- Instability: 0
- Special Hazards: None

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

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