Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier
3M™ Nitrile High Performance Rubber and Gasket Adhesive 847H

Product Identification Numbers

<table>
<thead>
<tr>
<th>ID Number</th>
<th>UPC</th>
<th>ID Number</th>
<th>UPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>62-1003-5530-4</td>
<td>00-21200-65343-8</td>
<td>62-1003-8535-0</td>
<td>00-21200-22570-3</td>
</tr>
<tr>
<td>62-1003-8537-6</td>
<td>500-21200-962436</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

7010330027, 7100025410, 7010309715

1.2. Recommended use and restrictions on use

Recommended use
Adhesive, Industrial use

1.3. Supplier's details
MANUFACTURER: 3M
DIVISION: Industrial Adhesives and Tapes 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

2.1. Hazard classification
Flammable Liquid: Category 2.
Serious Eye Damage/Irritation: Category 1.
Reproductive Toxicity: Category 2.
Specific Target Organ Toxicity (single exposure): Category 3.

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

Pictograms

Hazard Statements
Highly flammable liquid and vapor.

Causes serious eye damage.
May cause drowsiness or dizziness.
Suspected of damaging fertility or the unborn child.

Precautionary Statements

Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
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 outdoors or 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.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.
IF exposed or concerned: Get medical advice/attention.
In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

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

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

2.3. Hazards not otherwise classified
Repeated exposure may cause skin dryness or cracking.

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>Acetone</td>
<td>67-64-1</td>
<td>30 - 60</td>
</tr>
<tr>
<td>Acrylonitrile-Butadiene Polymer</td>
<td>9003-18-3</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Glycerol Esters of Rosin Acids</td>
<td>8050-31-5</td>
<td>7 - 13</td>
</tr>
<tr>
<td>Phenolic Resin</td>
<td>25085-50-1</td>
<td>7 - 13</td>
</tr>
<tr>
<td>Salicylic Acid</td>
<td>69-72-7</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Zinc Oxide</td>
<td>1314-13-2</td>
<td>&lt; 2.4</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:**
Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately 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 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.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocarbons</td>
<td>During Combustion</td>
</tr>
<tr>
<td>Carbon monoxide</td>
<td>During Combustion</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>During Combustion</td>
</tr>
<tr>
<td>Oxides of Nitrogen</td>
<td>During Combustion</td>
</tr>
</tbody>
</table>

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. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up
Contain spill. Cover spill area with a fire-extinguishing foam. An appropriate aqueous film forming foam (AFFF) is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. 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
For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. 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 get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. Use personal protective equipment (gloves, respirators, etc.) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

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>Zinc Oxide</td>
<td>1314-13-2</td>
<td>ACGIH</td>
<td>TWA(respirable fraction):2 mg/m3; STEL(respirable fraction):10 mg/m3</td>
<td></td>
</tr>
</tbody>
</table>
Zinc Oxide  1314-13-2  OSHA  TWA(as fume):5 mg/m3; TWA(as total dust):15 mg/m3; TWA( respirable fraction):5 mg/m3

Acetone  67-64-1  ACGIH  TWA:250 ppm; STEL:500 ppm  A4: Not class. as human carcinogen

Acetone  67-64-1  OSHA  TWA:2400 mg/m3 (1000 ppm)

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

### 8.2. Exposure controls

#### 8.2.1. Engineering controls
Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation equipment.

#### 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:
- Full Face Shield
- Indirect Vented Goggles

**Skin/hand protection**
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.
Gloves made from the following material(s) are recommended: Butyl Rubber

**Respiratory protection**
An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
- Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

### SECTION 9: Physical and chemical properties

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

| Appearance | Liquid
| Color | Brown
| Odor | Ketones
Odor threshold: No Data Available
pH: Not Applicable
Melting point: Not Applicable
Boiling Point: >=56 ºC [Details: Acetone]
Flash Point: -4 ºF [Test Method: Closed Cup] [Details: Acetone]
Evaporation rate: 1.9 [Ref Std: ETHER=1]
Flammability (solid, gas): Not Applicable
Flammable Limits (LEL): 2.6 % volume [Details: Acetone]
Flammable Limits (UEL): 12.8 % volume [Details: Acetone]
Vapor Pressure: <=185 mmHg [@ 68 ºF]
Vapor Density: 2.0 [Ref Std: AIR=1]
Density: 0.92 g/ml
Specific Gravity: 0.92 [Ref Std: WATER=1]
Solubility in Water: Slight (less than 10%)
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: 35,000 - 90,000 centipoise [@ 27 ºC ] [Test Method: Brookfield]
Hazardous Air Pollutants: <=1 % weight [Test Method: Calculated]
Molecular weight: Not Applicable
VOC Less H2O & Exempt Solvents: <=20 g/l [Test Method: calculated SCAQMD rule 443.1]
Solids Content: 40 - 70 % weight

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
Sparks and/or flames
Heat

10.5. Incompatible materials
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.

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:
Dermal Defatting: Signs/symptoms may include localized redness, itching, drying and cracking of skin. Allergic Skin Reaction (non-photo induced) in sensitive people: Signs/symptoms may include redness, swelling, blistering, and itching.

Eye Contact:
Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

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

May cause additional health effects (see below).

Additional Health Effects:

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

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

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>No data available; calculated ATE &gt;5,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Acetone</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 &gt; 15,688 mg/kg</td>
</tr>
<tr>
<td>Acetone</td>
<td>Inhalation: Vapor (4 hours)</td>
<td>Rat</td>
<td>LC50 76 mg/l</td>
</tr>
<tr>
<td>Acetone</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 5,800 mg/kg</td>
</tr>
<tr>
<td>Acrylonitrile-Butadiene Polymer</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 &gt; 15,000 mg/kg</td>
</tr>
<tr>
<td>Acrylonitrile-Butadiene Polymer</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 30,000 mg/kg</td>
</tr>
<tr>
<td>Phenolic Resin</td>
<td>Dermal</td>
<td>LD50 estimated to be &gt; 5,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Glycerol Esters of Rosin Acids</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Glycerol Esters of Rosin Acids</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 2,000 mg/kg</td>
</tr>
<tr>
<td>Salicylic Acid</td>
<td>Dermal</td>
<td>Rat</td>
<td>LD50 &gt; 2,000 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>Acetone</td>
<td>Mouse</td>
<td>Minimal irritation</td>
</tr>
<tr>
<td>Acrylonitrile-Butadiene Polymer</td>
<td>Professional judgement</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>Glycerol Esters of Rosin Acids</td>
<td>Rabbit</td>
<td>Minimal irritation</td>
</tr>
<tr>
<td>Salicylic Acid</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>Zinc Oxide</td>
<td>Human and animal</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>Acetone</td>
<td>Rabbit</td>
<td>Severe irritant</td>
</tr>
<tr>
<td>Acrylonitrile-Butadiene Polymer</td>
<td>Professional judgement</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>Glycerol Esters of Rosin Acids</td>
<td>Rabbit</td>
<td>Mild irritant</td>
</tr>
<tr>
<td>Salicylic Acid</td>
<td>Rabbit</td>
<td>Corrosive</td>
</tr>
<tr>
<td>Zinc Oxide</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>Glycerol Esters of Rosin Acids</td>
<td>Guinea pig</td>
<td>Not classified</td>
</tr>
<tr>
<td>Phenolic Resin</td>
<td>Human</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>Salicylic Acid</td>
<td>Mouse</td>
<td>Not classified</td>
</tr>
<tr>
<td>Zinc Oxide</td>
<td>Guinea pig</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

### Photosensitization

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salicylic Acid</td>
<td>Mouse</td>
<td>Not 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>Acetone</td>
<td>In vivo</td>
<td>Not mutagenic</td>
</tr>
<tr>
<td>Acetone</td>
<td>In Vitro</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>Glycerol Esters of Rosin Acids</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
</tr>
<tr>
<td>Salicylic Acid</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
</tr>
<tr>
<td>Salicylic Acid</td>
<td>In vivo</td>
<td>Not mutagenic</td>
</tr>
<tr>
<td>Zinc Oxide</td>
<td>In Vitro</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
</tbody>
</table>
Zinc Oxide

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>Not Specified</td>
<td>Multiple animal species</td>
<td>Not carcinogenic</td>
</tr>
</tbody>
</table>

Carcinogenicity

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>Acetone</td>
<td>Ingestion</td>
<td>Not classified for male reproduction</td>
<td>Rat</td>
<td>NOAEL 1,700 mg/kg/day</td>
<td>13 weeks</td>
</tr>
<tr>
<td>Acetone</td>
<td>Inhalation</td>
<td>Not classified for development</td>
<td>Rat</td>
<td>NOAEL 5.2 mg/l</td>
<td>during organogenesis</td>
</tr>
<tr>
<td>Salicylic Acid</td>
<td>Ingestion</td>
<td>Toxic to development</td>
<td>Rat</td>
<td>NOAEL 75 mg/kg/day</td>
<td>during organogenesis</td>
</tr>
<tr>
<td>Zinc Oxide</td>
<td>Ingestion</td>
<td>Not classified for reproduction and/or development</td>
<td>Multiple animal species</td>
<td>NOAEL 125 mg/kg/day</td>
<td>premating &amp; during gestation</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>Acetone</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>Acetone</td>
<td>Inhalation</td>
<td>respiratory irritation</td>
<td></td>
<td>Human</td>
<td>NOAEL Not available</td>
<td></td>
</tr>
<tr>
<td>Acetone</td>
<td>Inhalation</td>
<td>immune system</td>
<td>Not classified</td>
<td>Human</td>
<td>NOAEL 1.19 mg/l</td>
<td>6 hours</td>
</tr>
<tr>
<td>Acetone</td>
<td>Inhalation</td>
<td>liver</td>
<td>Not classified</td>
<td>Guinea pig</td>
<td>NOAEL Not available</td>
<td></td>
</tr>
<tr>
<td>Acetone</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>poisoning and/or abuse</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>Acetone</td>
<td>Dermal</td>
<td>eyes</td>
<td>Not classified</td>
<td>Guinea pig</td>
<td>NOAEL Not available</td>
<td>3 weeks</td>
</tr>
<tr>
<td>Acetone</td>
<td>Inhalation</td>
<td>hematopoietic system</td>
<td>Not classified</td>
<td>Human</td>
<td>NOAEL 3 mg/l</td>
<td>6 weeks</td>
</tr>
<tr>
<td>Acetone</td>
<td>Inhalation</td>
<td>immune system</td>
<td>Not classified</td>
<td>Human</td>
<td>NOAEL 1.19 mg/l</td>
<td>6 days</td>
</tr>
<tr>
<td>Acetone</td>
<td>Inhalation</td>
<td>kidney and/or bladder</td>
<td>Not classified</td>
<td>Guinea pig</td>
<td>NOAEL 119 mg/l</td>
<td>not available</td>
</tr>
<tr>
<td>Acetone</td>
<td>Inhalation</td>
<td>heart</td>
<td>liver</td>
<td>Not classified</td>
<td>Rat</td>
<td>NOAEL 45 mg/l</td>
</tr>
<tr>
<td>Acetone</td>
<td>Ingestion</td>
<td>kidney and/or bladder</td>
<td>Not classified</td>
<td>Rat</td>
<td>NOAEL 900 mg/kg/day</td>
<td>13 weeks</td>
</tr>
<tr>
<td>Acetone</td>
<td>Ingestion</td>
<td>heart</td>
<td>Not classified</td>
<td>Rat</td>
<td>NOAEL 2,500 mg/kg/day</td>
<td>13 weeks</td>
</tr>
<tr>
<td>Acetone</td>
<td>Ingestion</td>
<td>hematopoietic system</td>
<td>Not classified</td>
<td>Rat</td>
<td>NOAEL 200 mg/kg/day</td>
<td>13 weeks</td>
</tr>
<tr>
<td>Substance</td>
<td>Route of Exposure</td>
<td>Organ System Affected</td>
<td>Toxicological Effect</td>
<td>Species</td>
<td>NOAEL</td>
<td>Duration</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-------------------</td>
<td>-----------------------</td>
<td>----------------------</td>
<td>---------</td>
<td>-----------</td>
<td>-----------</td>
</tr>
<tr>
<td>Acetone</td>
<td>Ingestion</td>
<td>liver</td>
<td>Not classified</td>
<td>Mouse</td>
<td>3,896 mg/kg/day</td>
<td>14 days</td>
</tr>
<tr>
<td>Acetone</td>
<td>Ingestion</td>
<td>eyes</td>
<td>Not classified</td>
<td>Rat</td>
<td>3,400 mg/kg/day</td>
<td>13 weeks</td>
</tr>
<tr>
<td>Acetone</td>
<td>Ingestion</td>
<td>respiratory system</td>
<td>Not classified</td>
<td>Rat</td>
<td>2,500 mg/kg/day</td>
<td>13 weeks</td>
</tr>
<tr>
<td>Acetone</td>
<td>Ingestion</td>
<td>muscles</td>
<td>Not classified</td>
<td>Rat</td>
<td>2,500 mg/kg</td>
<td>13 weeks</td>
</tr>
<tr>
<td>Acetone</td>
<td>Ingestion</td>
<td>skin, bone, teeth, nails, and/or hair</td>
<td>Not classified</td>
<td>Mouse</td>
<td>11,298 mg/kg/day</td>
<td>13 weeks</td>
</tr>
<tr>
<td>Glycerol Esters of Rosin Acids</td>
<td>Ingestion</td>
<td>liver, heart, skin, endocrine system, bone, teeth, nails, and/or hair, bone marrow, hematopoietic system, immune system, muscles, nervous system, eyes, kidney and/or bladder, respiratory system</td>
<td>Not classified</td>
<td>Rat</td>
<td>5,000 mg/kg/day</td>
<td>90 days</td>
</tr>
<tr>
<td>Salicylic Acid</td>
<td>Ingestion</td>
<td>liver</td>
<td>Not classified</td>
<td>Rat</td>
<td>500 mg/kg/day</td>
<td>3 days</td>
</tr>
<tr>
<td>Zinc Oxide</td>
<td>Ingestion</td>
<td>nervous system</td>
<td>Not classified</td>
<td>Rat</td>
<td>600 mg/kg/day</td>
<td>10 days</td>
</tr>
<tr>
<td>Zinc Oxide</td>
<td>Ingestion</td>
<td>endocrine system, hematopoietic system, kidney and/or bladder</td>
<td>Not classified</td>
<td>Other</td>
<td>500 mg/kg/day</td>
<td>6 months</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 uncured product in a permitted waste incineration facility. Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations.
Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

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

SECTION 14: Transport Information

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

SECTION 15: Regulatory Information

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

EPCRA 311/312 Hazard Classifications:
- Physical Hazards
  - Flammable (gases, aerosols, liquids, or solids)
- Health Hazards
  - Hazard Not Otherwise Classified (HNOC)
  - Reproductive toxicity
  - Serious eye damage or eye irritation
  - Specific target organ toxicity (single or repeated exposure)

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>Zinc Oxide (ZINC COMPOUNDS)</td>
<td>T314-13-2</td>
<td>&lt; 2.4</td>
</tr>
</tbody>
</table>

15.2. State Regulations
Contact 3M for more information.

15.3. Chemical Inventories
The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

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: 3
- Flammability: 3
- Instability: 0
- Special Hazards: None

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

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