Safety Data Sheet

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**Issue Date:** 07/30/20  
**Version Number:** 6.00  
**Supercedes Date:** 10/28/16

**Product identifier**
3M™ Flexible Foam Adhesive PN 08463

<table>
<thead>
<tr>
<th>ID Number</th>
<th>UPC</th>
<th>ID Number</th>
<th>UPC</th>
</tr>
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<tbody>
<tr>
<td>41-0003-6635-5</td>
<td></td>
<td>41-0003-8014-1</td>
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<td>41-3701-2158-8</td>
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<td>60-9800-4269-5</td>
<td></td>
<td>60-9800-4270-3</td>
<td></td>
</tr>
<tr>
<td>60-9800-4271-1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

7100045768, 7000045731, 7000045732, 7000045733

**Recommended use**
Automotive, Two Component Flexible Foam

**Supplier's details**

MANUFACTURER: 3M  
DIVISION: Automotive Aftermarket

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:

07-3378-2, 07-5569-4

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

1.1. Product identifier

3M™ Flexible Foam/Part A, 08463

1.2. Recommended use and restrictions on use

**Recommended use**

Automotive, Two Component Flexible Foam

1.3. Supplier’s details

**MANUFACTURER:** 3M  
**DIVISION:** Automotive Aftermarket  
**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

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

2.1. Hazard classification

- Serious Eye Damage/Irritation: Category 2A.
- Skin Corrosion/Irritation: Category 2.
- Respiratory Sensitizer: Category 1.
- Skin Sensitizer: Category 1.
- Specific Target Organ Toxicity (single exposure): Category 3.
- Specific Target Organ Toxicity (repeated exposure): Category 1.

2.2. Label elements

**Signal word**
Danger

Symbols
Exclamation mark | Health Hazard |

Pictograms

Hazard Statements
Causes serious eye irritation.
Causes skin irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure:
respiratory system |

Precautionary Statements

Prevention:
Do not breathe dust, fume, gas, mist, vapor, spray.
Use only outdoors or in a well-ventilated area.
In case of inadequate ventilation wear respiratory protection.
Wear protective gloves and eye/face protection.
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 INHALED: Remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
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.
Take off contaminated clothing and wash it before reuse.
Call a POISON CENTER or doctor/physician if you feel unwell.

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

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

Supplemental Information:
Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

38% of the mixture consists of ingredients of unknown acute oral toxicity.
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>Urethane Prepolymer NJTSRN 04499600-6306</td>
<td>Trade Secret*</td>
<td>30 - 60 Trade Secret *</td>
</tr>
<tr>
<td>P,P’-Methylenebis(phenyl isocyanate)</td>
<td>101-68-8</td>
<td>10 - 30 Trade Secret *</td>
</tr>
<tr>
<td>Polymethylene Polyphenylene Isocyanate</td>
<td>9016-87-9</td>
<td>10 - 30 Trade Secret *</td>
</tr>
<tr>
<td>1,1’-METHYLENEBIS(ISOCYANATOBENZENE)</td>
<td>26447-40-5</td>
<td>&lt; 15 Trade Secret *</td>
</tr>
<tr>
<td>Dimethyl Siloxane, Reaction Product With Silica</td>
<td>67762-90-7</td>
<td>1 - 5 Trade Secret *</td>
</tr>
</tbody>
</table>

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

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

SECTION 4: First aid measures

4.1. Description of first aid measures

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

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

**Eye Contact:**
Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

**If Swallowed:**
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>Isocyanates</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>Hydrogen Cyanide</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. 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
Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. 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. Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. 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. 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 use in a confined area with minimal air exchange. Do not breathe 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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage including any incompatibilities
Store in a well-ventilated place. Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Store away from heat. 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>P,P’-Methylenebis(phenyl isocyanate)</td>
<td>101-68-8</td>
<td>ACGIH</td>
<td>TWA:0.005 ppm</td>
<td></td>
</tr>
<tr>
<td>P,P’-Methylenebis(phenyl isocyanate)</td>
<td>101-68-8</td>
<td>OSHA</td>
<td>CEIL:0.2 mg/m3(0.02 ppm)</td>
<td></td>
</tr>
<tr>
<td>SILICA, AMORPHOUS</td>
<td>67762-90-7</td>
<td>OSHA</td>
<td>TWA concentration:0.8</td>
<td></td>
</tr>
</tbody>
</table>
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.

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:
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 Neoprene Nitrile Rubber

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron – Butyl rubber Apron – Neoprene Apron – Nitrile

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

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Brown</td>
</tr>
<tr>
<td>Specific Physical Form:</td>
<td>Paste</td>
</tr>
</tbody>
</table>
Odor Odorless
Odor threshold No Data Available
pH Not Applicable
Melting point Not Applicable
Boiling Point >=300 °F
Flash Point >=300 °F [Test Method: Closed Cup]
Evaporation rate Not Applicable
Flammability (solid, gas) Not Applicable
Flammable Limits (LEL) No Data Available
Flammable Limits (UEL) No Data Available
Vapor Pressure <=27 psia [@ 131.0000000000 °F] [Details: MITS data]
Vapor Density 8.50 [Ref Std: AIR=1]
Density 1.135 - 1.16 g/ml
Specific Gravity 1.135 - 1.16 [Ref Std: WATER=1]
Solubility In Water Not Applicable
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
Hazardous Air Pollutants 4.34 lb HAPS/lb solids [Test Method: Calculated]
Molecular weight No Data Available
Volatile Organic Compounds 0.1 % weight [Test Method: calculated per CARB title 2]
Volatile Organic Compounds 1 g/l [Test Method: calculated SCAQMD rule 443.1]
Percent volatile 0.1 % weight
VOC Less H2O & Exempt Solvents 1 g/l [Test Method: calculated SCAQMD rule 443.1]

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
Alcohols
Water
Reaction with water, alcohols, and amines is not hazardous if container can vent to the atmosphere to prevent pressure buildup.

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.

Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

May cause additional health effects (see below).

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

Eye Contact:
Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

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

Additional Health Effects:
Prolonged or repeated exposure may cause target organ effects:
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.

Additional Information:
Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

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 &gt;5,000 mg/kg</td>
</tr>
<tr>
<td>P,P'-Methylenebis(phenyl isocyanate)</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Polymethylene Polyphenylene Isocyanate</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>P,P'-Methylenebis(phenyl isocyanate)</td>
<td>Inhalation- Dust/Mist (4 hours)</td>
<td>Rat</td>
<td>LC50 0.368 mg/l</td>
</tr>
</tbody>
</table>
### Skin Corrosion/Irritation

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>P,P'-Methylenebis(phenyl isocyanate)</td>
<td></td>
<td>official classification</td>
</tr>
<tr>
<td>Polymethylene Polyphenylene Isocyanate</td>
<td></td>
<td>official classification</td>
</tr>
<tr>
<td>1,1'-METHYLENEBIS(ISOCYANATOBENZENE)</td>
<td></td>
<td>official classification</td>
</tr>
<tr>
<td>Dimethyl Siloxane, Reaction Product With Silica</td>
<td></td>
<td>Rabbit</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>P,P'-Methylenebis(phenyl isocyanate)</td>
<td></td>
<td>official classification</td>
</tr>
<tr>
<td>Polymethylene Polyphenylene Isocyanate</td>
<td></td>
<td>official classification</td>
</tr>
<tr>
<td>1,1'-METHYLENEBIS(ISOCYANATOBENZENE)</td>
<td></td>
<td>official classification</td>
</tr>
<tr>
<td>Dimethyl Siloxane, Reaction Product With Silica</td>
<td></td>
<td>Rabbit</td>
</tr>
</tbody>
</table>

### Skin Sensitization

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>P,P'-Methylenebis(phenyl isocyanate)</td>
<td></td>
<td>official classification</td>
</tr>
<tr>
<td>Polymethylene Polyphenylene Isocyanate</td>
<td></td>
<td>official classification</td>
</tr>
<tr>
<td>1,1'-METHYLENEBIS(ISOCYANATOBENZENE)</td>
<td></td>
<td>official classification</td>
</tr>
<tr>
<td>Dimethyl Siloxane, Reaction Product With Silica</td>
<td></td>
<td>Human and animal</td>
</tr>
</tbody>
</table>

### Respiratory Sensitization

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>P,P'-Methylenebis(phenyl isocyanate)</td>
<td></td>
<td>Human</td>
</tr>
</tbody>
</table>
### Germ Cell Mutagenicity

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>P,P’-Methylenebis(phenyl isocyanate)</td>
<td>In Vitro</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>Polymethylene Polyphenylene Isocyanate</td>
<td>In Vitro</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>1,1’-METHYLENEBIS(ISOCYANATOBENZENE)</td>
<td>In Vitro</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>Dimethyl Siloxane, Reaction Product With 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>P,P’-Methylenebis(phenyl isocyanate)</td>
<td>Inhalation</td>
<td>Rat</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>Polymethylene Polyphenylene Isocyanate</td>
<td>Inhalation</td>
<td>Rat</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>1,1’-METHYLENEBIS(ISOCYANATOBENZENE)</td>
<td>Inhalation</td>
<td>Rat</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>Dimethyl Siloxane, Reaction Product With 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>P,P’-Methylenebis(phenyl isocyanate)</td>
<td>Inhalation</td>
<td>Not classified for development</td>
<td>Rat</td>
<td>NOAEL 0.004 mg/l</td>
<td>during organogenesis</td>
</tr>
<tr>
<td>Polymethylene Polyphenylene Isocyanate</td>
<td>Inhalation</td>
<td>Not classified for development</td>
<td>Rat</td>
<td>NOAEL 0.004 mg/l</td>
<td>during organogenesis</td>
</tr>
<tr>
<td>1,1’-METHYLENEBIS(ISOCYANATOBENZENE)</td>
<td>Inhalation</td>
<td>Not classified for development</td>
<td>Rat</td>
<td>NOAEL 0.004 mg/l</td>
<td>during organogenesis</td>
</tr>
<tr>
<td>Dimethyl Siloxane, Reaction Product With 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>Dimethyl Siloxane, Reaction Product With 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>Dimethyl Siloxane, Reaction Product With 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>P,P’-Methylenebis(phenyl isocyanate)</td>
<td>Inhalation</td>
<td>respiratory irritation</td>
<td>May cause respiratory irritation</td>
<td>official classification</td>
<td>NOAEL Not available</td>
<td></td>
</tr>
<tr>
<td>Polymethylene Polyphenylene Isocyanate</td>
<td>Inhalation</td>
<td>respiratory irritation</td>
<td>May cause respiratory irritation</td>
<td>official classification</td>
<td>NOAEL Not available</td>
<td></td>
</tr>
<tr>
<td>1,1’-METHYLENEBIS(ISOCYANATOBENZENE)</td>
<td>Inhalation</td>
<td>respiratory irritation</td>
<td>May cause respiratory irritation</td>
<td>official classification</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>P,P'-Methylenebis(phenylisocyanate)</td>
<td>Inhalation</td>
<td>respiratory system</td>
<td>Causes damage to organs through prolonged or repeated exposure</td>
<td>Rat</td>
<td>LOAEL 0.004 mg/l</td>
<td>13 weeks</td>
</tr>
<tr>
<td>Polymethylene Polyphenylene Isocyanate</td>
<td>Inhalation</td>
<td>respiratory system</td>
<td>Causes damage to organs through prolonged or repeated exposure</td>
<td>Rat</td>
<td>LOAEL 0.004 mg/l</td>
<td>13 weeks</td>
</tr>
<tr>
<td>1,1'-METHYLENEBIS(ISOCYANATOBENZENE)</td>
<td>Inhalation</td>
<td>respiratory system</td>
<td>Causes damage to organs through prolonged or repeated exposure</td>
<td>Rat</td>
<td>LOAEL 0.004 mg/l</td>
<td>13 weeks</td>
</tr>
<tr>
<td>Dimethyl Siloxane, Reaction Product With Silica</td>
<td>Inhalation</td>
<td>respiratory system</td>
<td>silicosis Not classified</td>
<td>Human</td>
<td>NOAEL Not available</td>
<td>occupational exposure</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. 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.

**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
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>P,P'-Methylenebis(phenyl isocyanate)</td>
<td>101-68-8</td>
<td>Trade Secret 10 - 30</td>
</tr>
<tr>
<td>P,P'-Methylenebis(phenyl isocyanate) (DIISOCYANATES (CERTAIN CHEMICALS ONLY))</td>
<td>101-68-8</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Polymethylene Polyphenylene Isocyanate</td>
<td>9016-87-9</td>
<td>Trade Secret 10 - 30</td>
</tr>
<tr>
<td>Polymethylene Polyphenylene Isocyanate (DIISOCYANATES (CERTAIN CHEMICALS ONLY))</td>
<td>9016-87-9</td>
<td>10 - 30</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.

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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which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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Safety Data Sheet

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Issue Date: 07/29/20
Version Number: 12.00
Supercedes Date: 04/05/18

SECTION 1: Identification

1.1. Product identifier
3M™ Flexible Foam Adhesive PN 08463, Part B

Product Identification Numbers
ID Number          UPC
LB-K100-0029-7

1.2. Recommended use and restrictions on use

Recommended use
Automotive, Two Component Flexible Foam

1.3. Supplier’s details
MANUFACTURER: 3M
DIVISION: Automotive Aftermarket
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

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

2.1. Hazard classification
Serious Eye Damage/Irritation: Category 2A.
Skin Corrosion/Irritation: Category 2.
Skin Sensitizer: Category 1B.
Reproductive Toxicity: Category 1B.
Germ Cell Mutagenicity: Category 2.
Specific Target Organ Toxicity (single exposure): Category 1.
Specific Target Organ Toxicity (repeated exposure): Category 1.

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

Pictograms

Hazard Statements
Causes serious eye irritation.
Causes skin irritation.
May cause an allergic skin reaction.
May damage fertility or the unborn child.
Suspected of causing genetic defects.

Causes damage to organs:
- immune system
- liver
- nervous system
- kidney/urinary tract

Causes damage to organs through prolonged or repeated exposure:
- immune system
- liver

Precautionary Statements

Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wear protective gloves and eye/face protection.
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 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.
Take off contaminated clothing and wash it before reuse.
IF exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.

Storage:
Store locked up.

Disposal:
Dispose of contents/container in accordance with applicable local/regional/national/international regulations.
1% of the mixture consists of ingredients of unknown acute inhalation toxicity.

**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>Glycerol Poly(Oxyethylene, Oxypropylene) Ether</td>
<td>9082-00-2</td>
<td>30 - 60</td>
</tr>
<tr>
<td>Polypropylene Glycol Glycerol Triether</td>
<td>25791-96-2</td>
<td>30 - 60</td>
</tr>
<tr>
<td>Dimethyl Siloxane, Reaction Product with Silica</td>
<td>67762-90-7</td>
<td>3 - 7</td>
</tr>
<tr>
<td>Dibutyltin Dilaurate</td>
<td>77-58-7</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Diethylene Glycol</td>
<td>111-46-6</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Dipropylene Glycol</td>
<td>25265-71-8</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Non-hazardous Ingredient</td>
<td>7732-18-5</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Triethylenediamine</td>
<td>280-57-9</td>
<td>0.5 - 1.5</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:**
Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. 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.

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. 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. 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. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with detergent and water. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Do not use in a confined area with minimal air exchange. Do not handle until all safety precautions have been read and understood. Do not breathe 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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities
Store in a well-ventilated place. Store away from heat. Store away from areas where product may come into contact with food or pharmaceuticals.

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>Diethylene Glycol</td>
<td>111-46-6</td>
<td>AIHA</td>
<td>TWA:10 mg/m3</td>
<td></td>
</tr>
<tr>
<td>SILICA, AMORPHOUS</td>
<td>67762-90-7</td>
<td>OSHA</td>
<td>TWA:20 millions of particles/cu. ft.; TWA concentration: 0.8 mg/m3</td>
<td></td>
</tr>
<tr>
<td>TIN, ORGANIC COMPOUNDS</td>
<td>77-58-7</td>
<td>ACGIH</td>
<td>TWA(as Sn):0.1 mg/m3; STEL(as Sn): 0.2 mg/m3</td>
<td>A4: Not class. as human carcin, Danger of cutaneous absorption</td>
</tr>
<tr>
<td>TIN, ORGANIC COMPOUNDS</td>
<td>77-58-7</td>
<td>OSHA</td>
<td>TWA(as Sn):0.1 mg/m3</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
Provide appropriate local exhaust ventilation on open containers. 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. Provide appropriate local exhaust ventilation for cutting, grinding, sanding or machining.

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:
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: Neoprene
Nitrile Rubber

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - Neoprene
Apron – Nitrile

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td><strong>Specific Physical Form:</strong></td>
<td>Flexible Foam</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</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>&gt;=250 ºF [Test Method: Tagliabue Closed Cup]</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>
Flammability (solid, gas) Not Applicable
Flammable Limits(LEL) No Data Available
Flammable Limits(UEL) No Data Available
Vapor Pressure \( \leq 27 \text{ psia} \) \([\text{Details: MITS data}]\)
Vapor Density Not Applicable
Density 0.960 - 1.030 g/ml
Specific Gravity 0.960 - 1.030 \([\text{Ref Std: WATER}=1]\)
Solubility in Water Moderate
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
Hazardous Air Pollutants 0.0008 lb HAPS/lb solids \([\text{Test Method: Calculated}]\)
Molecular weight No Data Available
Volatile Organic Compounds 45 g/l \([\text{Test Method: calculated SCAQMD rule 443.1}]\)
Volatile Organic Compounds 1.9 % weight \([\text{Test Method: calculated per CARB title 2}]\)
Percent volatile 26.3 % weight
VOC Less H2O & Exempt Solvents 57 g/l \([\text{Test Method: calculated SCAQMD rule 443.1}]\)

**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
None known.

10.5. Incompatible materials
None known.

10.6. Hazardous decomposition products

<table>
<thead>
<tr>
<th>Substance</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon monoxide</td>
<td>Not Specified</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>Not Specified</td>
</tr>
<tr>
<td>Toxic Vapor, Gas, Particulate</td>
<td>Not Specified</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.

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.

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

**Eye Contact:**
Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired 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:**
Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Immunological Effects: Signs/symptoms may include alterations in the number of circulating immune cells, allergic skin and/or respiratory reaction, and changes in immune function.

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

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

**Prolonged or repeated exposure may cause target organ effects:**
Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Immunological Effects: Signs/symptoms may include alterations in the number of circulating immune cells, allergic skin and/or respiratory reaction, and changes in immune function.

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

**Genotoxicity:**
Genotoxicity and Mutagenicity: May interact with genetic material and possibly alter gene expression.

**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>
</tbody>
</table>
### Overall Product

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol Poly(Oxyethylene, Oxypropylene) Ether</td>
<td>Dermal</td>
<td>Rabbit LD50 &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Glycerol Poly(Oxyethylene, Oxypropylene) Ether</td>
<td>Ingestion</td>
<td>LD50 = 10,000 mg/kg</td>
</tr>
<tr>
<td>Polypropylene Glycol Glycerol Triether</td>
<td>Dermal</td>
<td>Rat LD50 &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Polypropylene Glycol Glycerol Triether</td>
<td>Ingestion</td>
<td>LD50 &gt; 50 mg/l</td>
</tr>
<tr>
<td>Dimethyl Siloxane, Reaction Product with Silica</td>
<td>Rabbit</td>
<td>LD50 &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Dimethyl Siloxane, Reaction Product with Silica</td>
<td>Ingestion</td>
<td>LD50 &gt; 5,110 mg/kg</td>
</tr>
<tr>
<td>Dipropylene Glycol</td>
<td>Dermal</td>
<td>Rabbit LD50 &gt; 5,010 mg/kg</td>
</tr>
<tr>
<td>Dipropylene Glycol</td>
<td>Ingestion</td>
<td>LD50 &gt; 2.34 mg/l</td>
</tr>
<tr>
<td>Dibutyltin Dilaurate</td>
<td>Dermal</td>
<td>Rat LD50 &gt; 2,000 mg/kg</td>
</tr>
<tr>
<td>Dibutyltin Dilaurate</td>
<td>Ingestion</td>
<td>LD50 1,290 mg/kg</td>
</tr>
<tr>
<td>Diethylene Glycol</td>
<td>Ingestion</td>
<td>Human LD50 estimated to be 300 - 2,000 mg/kg</td>
</tr>
<tr>
<td>Diethylene Glycol</td>
<td>Dermal</td>
<td>Rabbit LD50 13,300 mg/kg</td>
</tr>
<tr>
<td>Triethylenediamine</td>
<td>Dermal</td>
<td>Rabbit LD50 &gt; 3,200 mg/kg</td>
</tr>
<tr>
<td>Triethylenediamine</td>
<td>Ingestion</td>
<td>Rat LD50 &gt; 5.05 mg/l</td>
</tr>
<tr>
<td>Triethylenediamine</td>
<td>Ingestion</td>
<td>LD50 1,870 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>Polypropylene Glycol Glycerol Triether</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>Dimethyl Siloxane, Reaction Product with Silica</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>Dipropylene Glycol</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>Dibutyltin Dilaurate</td>
<td>Rabbit</td>
<td>Corrosive</td>
</tr>
<tr>
<td>Diethylene Glycol</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>Triethylenediamine</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>Polypropylene Glycol Glycerol Triether</td>
<td>Rabbit</td>
<td>Mild irritant</td>
</tr>
<tr>
<td>Dimethyl Siloxane, Reaction Product with Silica</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>Dibutyltin Dilaurate</td>
<td>Rabbit</td>
<td>Corrosive</td>
</tr>
<tr>
<td>Diethylene Glycol</td>
<td>Rabbit</td>
<td>Mild irritant</td>
</tr>
<tr>
<td>Triethylenediamine</td>
<td>Rabbit</td>
<td>Corrosive</td>
</tr>
</tbody>
</table>

### Skin Sensitization

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl Siloxane, Reaction Product with Silica</td>
<td>Human and animal</td>
<td>Not classified</td>
</tr>
<tr>
<td>Dipropylene Glycol</td>
<td>Guinea pig</td>
<td>Not classified</td>
</tr>
<tr>
<td>Dibutyltin Dilaurate</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>Dimethyl Siloxane, Reaction Product with Silica</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
</tr>
<tr>
<td>Dipropylene Glycol</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
</tr>
<tr>
<td>Dipropylene Glycol</td>
<td>In vivo</td>
<td>Not mutagenic</td>
</tr>
<tr>
<td>Dibutyltin Dilaurate</td>
<td>In Vitro</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>Dibutyltin Dilaurate</td>
<td>In vivo</td>
<td>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>Dimethyl Siloxane, Reaction Product with Silica</td>
<td>Not Specified</td>
<td>Mouse</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>Dipropylene Glycol</td>
<td>Ingestion</td>
<td>Multiple animal species</td>
<td>Not carcinogenic</td>
</tr>
</tbody>
</table>

Reproductive Toxicity

Reproductive and/or Developmental Effects

<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>Dimethyl Siloxane, Reaction Product with 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>
<td></td>
</tr>
<tr>
<td>Dimethyl Siloxane, Reaction Product with 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>
<td></td>
</tr>
<tr>
<td>Dimethyl Siloxane, Reaction Product with 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>
<td></td>
</tr>
<tr>
<td>Dipropylene Glycol</td>
<td>Ingestion</td>
<td>Not classified for development</td>
<td>Rat</td>
<td>NOAEL 5,000 mg/kg/day</td>
<td>during organogenesis</td>
<td></td>
</tr>
<tr>
<td>Dibutyltin Dilaurate</td>
<td>Ingestion</td>
<td>Toxic to female reproduction</td>
<td>Rat</td>
<td>NOAEL 2 mg/kg/day</td>
<td>prematation into lactation</td>
<td></td>
</tr>
<tr>
<td>Dibutyltin Dilaurate</td>
<td>Ingestion</td>
<td>Toxic to development</td>
<td>Rat</td>
<td>NOAEL 2.5 mg/kg/day</td>
<td>during gestation</td>
<td></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>Dibutyltin Dilaurate</td>
<td>Ingestion</td>
<td>immune system</td>
<td>Causes damage to organs</td>
<td>Rat</td>
<td>LOAEL 5 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Diethylene Glycol</td>
<td>Ingestion</td>
<td>liver</td>
<td>nervous system</td>
<td>kidney and/or bladder</td>
<td>Causes damage to organs</td>
<td>Human</td>
</tr>
<tr>
<td>Diethylene Glycol</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>Dimethyl Siloxane, Reaction Product with 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>
<tr>
<td>Dipropylene Glycol</td>
<td>Ingestion</td>
<td>respiratory system</td>
<td>Some positive data exist, but the data are not sufficient for</td>
<td>Rat</td>
<td>NOAEL 470 mg/kg/day</td>
<td>105 weeks</td>
</tr>
</tbody>
</table>
Dipropylene Glycol

**Ingestion**

- **Classification:** Not classified
- **Species:** Rat
- **NOAEL:** 470 mg/kg/day
- **Exposure Period:** 105 weeks

**Liver**

- **Classification:** Not classified
- **Species:** Rat
- **NOAEL:** 3,040 mg/kg/day
- **Exposure Period:** 105 weeks

**Kidney and/or Bladder**

- **Classification:** Not classified
- **Species:** Rat
- **NOAEL:** 115 mg/kg/day
- **Exposure Period:** 105 weeks

**Skin | Bone, Teeth, Nails, and/or Hair | Hematopoietic System | Immune System | Nervous System | Vascular System**

- **Classification:** Not classified
- **Species:** Rat
- **NOAEL:** 3,040 mg/kg/day
- **Exposure Period:** 105 weeks

Dibutyltin Dilaurate

**Ingestion**

- **Liver**
  - **Classification:** Causes damage to organs through prolonged or repeated exposure
  - **Species:** Rat
  - **NOAEL:** 2 mg/kg/day
  - **Exposure Period:** 2 weeks

- **Immune System**
  - **Classification:** Causes damage to organs through prolonged or repeated exposure
  - **Species:** Rat
  - **NOAEL:** 0.3 mg/kg/day
  - **Exposure Period:** 28 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.

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**
- Germ cell mutagenicity
- Reproductive toxicity
- Respiratory or Skin Sensitization
- Serious eye damage or eye irritation
- Skin Corrosion or Irritation
- 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 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: 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:** 07-5569-4  
**Version Number:** 12.00  
**Issue Date:** 07/29/20  
**Supercedes Date:** 04/05/18

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