Material Safety Data Sheet

Copyright, 2014, 3M Company. All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

PRODUCT NAME: 3M™ Scotch-Weld™ EC-3524 B/A Void Filling Compound
MANUFACTURER: 3M
DIVISION: Aerospace and Commercial Transportation Division
ADDRESS: 3M Center, St. Paul, MN 55144-1000, USA
Telephone: 1-888-3M HELPS (1-888-364-3577)

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)
Issue Date: 04/18/14
Supersedes Date: 03/10/11
Document Group: 11-3183-8

ID Number(s):
62-3524-6101-6, 62-3524-6701-3, 62-3524-8640-1

This product is a kit or a multipart product which consists of multiple, independently packaged components. An SDS for each of these components is included. Please do not separate the component SDSs from this cover page. The document numbers of the SDSs for components of this product are:
10-4960-0, 10-4959-2

Revision Changes:
Kit: Component heading paragraph information was modified.
Kit: Division name information was modified.
Kit division name information was modified.
Section 1: Manufacturer name information was added.
Section 16: Disclaimer (first paragraph) information was added.
Section 16: Disclaimer (second paragraph) information was added.
Section 16: Web address information was added.
Section 1: Address information was added.
Copyright information was added.
Company logo information was added.
Telephone header information was added.
Company Telephone information was added.
Section 1: Emergency phone information information was added.
Company Logo information was deleted.
Copyright information was deleted.
Kit: Manufacturer's name information was deleted.
Kit: Emergency phone information information was deleted.
Kit: Disclaimer (first paragraph) information was deleted.
Kit: Disclaimer (second paragraph) information was deleted.
Kit: Address line 1 information was deleted.
Kit: Address line 2 information was deleted.

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of 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.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from 3M

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

1.1. Product identifier
3M™ Scotch-Weld™ EC-3524 B/A Part B Void Filling Compound

1.2. Recommended use and restrictions on use

Recommended use
Base of 2-Part Void Filling Adhesive

1.3. Supplier’s details

MANUFACTURER: 3M
DIVISION: Aerospace and Commercial Transportation 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

Serious Eye Damage/Irritation: Category 2B.
Skin Sensitizer: Category 1.
Carcinogenicity: Category 2.
Specific Target Organ Toxicity (repeated exposure): Category 1.

2.2. Label elements

Signal word
Danger

Symbols
Exclamation mark | Health Hazard |

Pictograms
Hazard Statements
Causes eye irritation.
May cause an allergic skin reaction.
Suspected of causing cancer.

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

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.
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.
Wash contaminated clothing before reuse.
IF exposed or concerned:  Get medical advice/attention.

Storage:
Store locked up.

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>Epoxy Resin</td>
<td>25085-99-8</td>
<td>40 - 70 Trade Secret *</td>
</tr>
<tr>
<td>Glass Bubbles</td>
<td>65997-17-3</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Brominated Aliphatic Polyol Polyepoxy Resin</td>
<td>31452-80-9</td>
<td>10 - 30 Trade Secret *</td>
</tr>
<tr>
<td>Antimony Trioxide</td>
<td>1309-64-4</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:
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 flammable liquids and solids such as dry chemical or carbon dioxide 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>Oxides of Antimony</td>
<td>During Combustion</td>
</tr>
</tbody>
</table>

5.3. Special protective actions for fire-fighters
No unusual fire or explosion hazards 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. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode.

6.2. Environmental precautions
Avoid release to the environment.
6.3. Methods and material for containment and cleaning up
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 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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
For industrial or professional use only. 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. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities
Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

<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>ANTIMONY COMPOUNDS</td>
<td>1309-64-4</td>
<td>Amer Conf of Gov. Indust. Hyg.</td>
<td>TWA(as Sb):0.5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>ANTIMONY COMPOUNDS</td>
<td>1309-64-4</td>
<td>US Dept of Labor - OSHA</td>
<td>TWA(as Sb):0.5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Antimony Trioxide</td>
<td>1309-64-4</td>
<td>Chemical Manufacturer Rec Guid</td>
<td>TWA(as Sb):0.2 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Glass Bubbles</td>
<td>65997-17-3</td>
<td>Manufacturer determined</td>
<td>TWA(as dust):10 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

Amer Conf of Gov. Indust. Hyg.: American Conference of Governmental Industrial Hygienists
American Indus. Hygiene Assoc.: American Industrial Hygiene Association
Chemical Manufacturer Rec Guid: Chemical Manufacturer's Recommended Guidelines
US Dept of Labor - 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.

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: Polymer laminate

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 - polymer laminate

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>General Physical Form:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Specific Physical Form:</td>
<td>Paste</td>
</tr>
<tr>
<td>Odor, Color, Grade:</td>
<td>Blue, characteristic epoxy odor.</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>&gt;=200 °F</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>&gt;=200 °F [Test Method: Closed Cup]</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not Applicable</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>Not Applicable</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Density</td>
<td>0.54 g/ml</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.54 [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>&gt;=100,000 centipoise [@ 73.4 °C ]</td>
</tr>
<tr>
<td>Volatile Organic Compounds</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Percent volatile</td>
<td>0.0 % weight</td>
</tr>
</tbody>
</table>
VOC Less H2O & Exempt Solvents Not Applicable

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
Not determined

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.

Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause target organ effects after inhalation.

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.
May cause target organ effects after skin contact.

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

Dust created by cutting, grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

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

**Target Organ Effects:**

Prolonged or repeated exposure may cause:

Fibrosis: Signs/symptoms may include breathlessness, chronic dry cough, phlegm production, wheezing, and changes in lung function tests.

Dermal Effects: Signs/symptoms may include redness, itching, acne, or bumps on the skin.

**Carcinogenicity:**
Contains a chemical or chemicals which can cause cancer.

### Toxicalogical 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>Epoxy Resin</td>
<td>Dermal</td>
<td>Rat</td>
<td>LD50 &gt; 1,600 mg/kg</td>
</tr>
<tr>
<td>Epoxy Resin</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 1,000 mg/kg</td>
</tr>
<tr>
<td>Brominated Aliphatic Polyol Polyepoxy Resin</td>
<td>Dermal</td>
<td></td>
<td>LD50 estimated to be &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Brominated Aliphatic Polyol Polyepoxy Resin</td>
<td>Ingestion</td>
<td></td>
<td>LD50 estimated to be 2,000 - 5,000 mg/kg</td>
</tr>
<tr>
<td>Glass Bubbles</td>
<td>Dermal</td>
<td></td>
<td>LD50 estimated to be &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Glass Bubbles</td>
<td>Ingestion</td>
<td></td>
<td>LD50 estimated to be 2,000 - 5,000 mg/kg</td>
</tr>
<tr>
<td>Antimony Trioxide</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 &gt; 6,685 mg/kg</td>
</tr>
<tr>
<td>Antimony Trioxide</td>
<td>Ingestion</td>
<td></td>
<td>LD50 &gt; 34,600 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>Epoxy Resin</td>
<td>Rabbit</td>
<td>Mild irritant</td>
</tr>
<tr>
<td>Brominated Aliphatic Polyol Polyepoxy Resin</td>
<td></td>
<td>Mild irritant</td>
</tr>
<tr>
<td>Glass Bubbles</td>
<td>Human and animal</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>Epoxy Resin</td>
<td>Rabbit</td>
<td>Moderate irritant</td>
</tr>
<tr>
<td>Brominated Aliphatic Polyol Polyepoxy Resin</td>
<td></td>
<td>Moderate irritant</td>
</tr>
<tr>
<td>Glass Bubbles</td>
<td></td>
<td>No significant irritation</td>
</tr>
</tbody>
</table>
### Antimony Trioxide

Rabbit Mild irritant

#### Skin Sensitization

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epoxy Resin</td>
<td>Human and animal</td>
<td>Sensitizing</td>
</tr>
<tr>
<td>Brominated Aliphatic Polyol Polyepoxy Resin</td>
<td>similar compounds</td>
<td>Sensitizing</td>
</tr>
<tr>
<td>Antimony Trioxide</td>
<td>Human</td>
<td>Not sensitizing</td>
</tr>
</tbody>
</table>

#### Respiratory Sensitization

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epoxy Resin</td>
<td>Human</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
</tbody>
</table>

#### Germ Cell Mutagenicity

<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>Epoxy Resin</td>
<td>In vivo</td>
<td>Not mutagenic</td>
<td>Human</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Epoxy Resin</td>
<td>In Vitro</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glass Bubbles</td>
<td>In Vitro</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antimony Trioxide</td>
<td>In Vitro</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
<td></td>
<td></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>Epoxy Resin</td>
<td>Dermal</td>
<td>Mouse</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>Glass Bubbles</td>
<td>Inhalation</td>
<td>Multiple animal species</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>Antimony Trioxide</td>
<td>Inhalation</td>
<td>Rat</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>Epoxy Resin</td>
<td>Ingestion</td>
<td>Not toxic to female reproduction</td>
<td>Rat</td>
<td>NOAEL 750 mg/kg/day</td>
<td>2 generation</td>
</tr>
<tr>
<td>Epoxy Resin</td>
<td>Ingestion</td>
<td>Not toxic to male reproduction</td>
<td>Rat</td>
<td>NOAEL 750 mg/kg/day</td>
<td>2 generation</td>
</tr>
<tr>
<td>Epoxy Resin</td>
<td>Dermal</td>
<td>Not toxic to development</td>
<td>Rabbit</td>
<td>NOAEL 300 mg/kg/day</td>
<td>during organogenesis</td>
</tr>
<tr>
<td>Epoxy Resin</td>
<td>Ingestion</td>
<td>Not toxic to development</td>
<td>Rat</td>
<td>NOAEL 750 mg/kg/day</td>
<td>2 generation</td>
</tr>
<tr>
<td>Antimony Trioxide</td>
<td>Inhalation</td>
<td>Some positive female reproductive data exist, but the data are not sufficient for classification</td>
<td>Rat</td>
<td>LOAEL 0.25 mg/l</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>Antimony Trioxide</td>
<td>Inhalation</td>
<td>respiratory irritation</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
<td>NOAEL Not available</td>
<td></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>Epoxy Resin</td>
<td>Dermal</td>
<td>liver</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
<td>Rat</td>
<td>NOAEL 1,000 mg/kg/day</td>
<td>2 years</td>
</tr>
<tr>
<td>Epoxy Resin</td>
<td>Dermal</td>
<td>nervous system</td>
<td>All data are negative</td>
<td>Rat</td>
<td>NOAEL 1,000 mg/kg/day</td>
<td>13 weeks</td>
</tr>
<tr>
<td>Epoxy Resin</td>
<td>Ingestion</td>
<td>auditory system</td>
<td>heart</td>
<td>endocrine system</td>
<td>hematopoietic system</td>
<td>liver</td>
</tr>
<tr>
<td>Glass Bubbles</td>
<td>Inhalation</td>
<td>respiratory system</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
<td>Human</td>
<td>NOAEL not available</td>
<td>occupational exposure</td>
</tr>
<tr>
<td>Antimony Trioxide</td>
<td>Dermal</td>
<td>skin</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>Antimony Trioxide</td>
<td>Inhalation</td>
<td>pulmonary fibrosis</td>
<td>May cause damage to organs though prolonged or repeated exposure</td>
<td>Rat</td>
<td>NOAEL .002 mg/l</td>
<td>1 years</td>
</tr>
<tr>
<td>Antimony Trioxide</td>
<td>Inhalation</td>
<td>liver</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
<td>Rat</td>
<td>NOAEL 0.043 mg/l</td>
<td>1 years</td>
</tr>
<tr>
<td>Antimony Trioxide</td>
<td>Inhalation</td>
<td>blood</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
<td>Rat</td>
<td>NOAEL .004 mg/l</td>
<td>not available</td>
</tr>
<tr>
<td>Antimony Trioxide</td>
<td>Inhalation</td>
<td>pneumoconiosis</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
<td>Human</td>
<td>LOAEL 0.01 mg/l</td>
<td>occupational exposure</td>
</tr>
<tr>
<td>Antimony Trioxide</td>
<td>Inhalation</td>
<td>heart</td>
<td>All data are negative</td>
<td>Rat</td>
<td>NOAEL 0.02 mg/l</td>
<td>1 years</td>
</tr>
<tr>
<td>Antimony Trioxide</td>
<td>Ingestion</td>
<td>blood</td>
<td>liver</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
<td>Rat</td>
<td>NOAEL 418 mg/kg/day</td>
</tr>
<tr>
<td>Antimony Trioxide</td>
<td>Ingestion</td>
<td>heart</td>
<td>All data are negative</td>
<td>Rat</td>
<td>NOAEL Not available</td>
<td>not available</td>
</tr>
</tbody>
</table>

### Aspiration Hazard

<table>
<thead>
<tr>
<th>Name</th>
<th>Value</th>
</tr>
</thead>
</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 completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. 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. 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.

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

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

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No</th>
<th>% by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimony Trioxide (ANTIMONY COMPOUNDS)</td>
<td>1309-64-4</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

15.2. State Regulations
Contact 3M for more information.

California Proposition 65

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimony Trioxide</td>
<td>1309-64-4</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

WARNING: This product contains a chemical known to the State of California to cause cancer.

15.3. Chemical Inventories
The components of this product are in compliance with the chemical notification requirements of TSCA.

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: 10-4959-2  Version Number: 24.00
Issue Date: 04/18/14  Supercedes Date: 06/07/07

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of 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.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from 3M

3M USA SDSs are available at www.3M.com
Safety Data Sheet

Copyright, 2015, 3M Company.
All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

SECTION 1: Identification

1.1. Product identifier
3M™ Scotch-Weld™ Void Filling Compound EC-3524 B/A Part A

1.2. Recommended use and restrictions on use
Recommended use
Part A of 2-Part Void Filling Compound

1.3. Supplier’s details
MANUFACTURER: 3M
DIVISION: Aerospace and Commercial Transportation 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
Serious Eye Damage/Irritation: Category 1.
Skin Corrosion/Irritation: Category 1B.
Skin Sensitizer: Category 1A.

2.2. Label elements
Signal word
Danger

Symbols
Corrosion | Exclamation mark |

Pictograms
Hazard Statements
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

Precautionary Statements

Prevention:
Do not breathe dust/fume/gas/mist/vapors/spray.
Wear protective gloves, protective clothing, and eye/face protection.
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 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 skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage:
Store locked up.

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

2.3. Hazards not otherwise classified
May cause chemical gastrointestinal burns.

48% of the mixture consists of ingredients of unknown acute oral toxicity.
48% of the mixture consists of ingredients of unknown acute dermal toxicity.
86% 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>Aliphatic Polymer Diamine</td>
<td>68911-25-1</td>
<td>30 - 60</td>
</tr>
<tr>
<td>Flame Retardant</td>
<td>13560-89-9</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Glass Bubbles</td>
<td>65997-17-3</td>
<td>10 - 30</td>
</tr>
<tr>
<td>bis(3-Aminopropyl) Ether of Diethylene Glycol</td>
<td>4246-51-9</td>
<td>5 - 10</td>
</tr>
<tr>
<td>2,4,6-tris(Dimethylamino)Methyl Phenol</td>
<td>90-72-2</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Polymeric Diamide</td>
<td>68541-13-9</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Triphenyl Phosphite</td>
<td>101-02-0</td>
<td>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 flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

**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. 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.

**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. 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
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 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.

**SECTION 7: Handling and storage**

7.1. Precautions for safe handling
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. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities
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>Triphenyl Phospite</td>
<td>101-02-0</td>
<td>CMRG</td>
<td>TWA:0.1 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Glass Bubbles</td>
<td>65997-17-3</td>
<td>Manufacturer determined</td>
<td>TWA(as dust):10 mg/m³</td>
<td></td>
</tr>
<tr>
<td>2,4,6-tris(Dimethylamino)Methyl Phenol</td>
<td>90-72-2</td>
<td>CMRG</td>
<td>TWA:5 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 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:
- 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. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.
Gloves made from the following material(s) are recommended: Polymer laminate

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 - polymer laminate

**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

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

- **General Physical Form:** Liquid
- **Specific Physical Form:** Paste
- **Odor, Color, Grade:** White, characteristic amine odor.
- **Odor threshold:** No Data Available
- **pH:** Not Applicable
- **Melting point:** No Data Available
- **Boiling Point:** >=200 ºF
- **Flash Point:** >=200 ºF [Test Method: Closed Cup]
- **Evaporation rate:** Not Applicable
- **Flammability (solid, gas):** Not Applicable
- **Flammable Limits (LEL):** Not Applicable
- **Flammable Limits (UEL):** Not Applicable
- **Vapor Pressure:** Not Applicable
- **Vapor Density:** Not Applicable
- **Density:** 0.5 g/ml
- **Specific Gravity:** 0.5 [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:** >=100,000 centipoise [@ 73.4 ºF ]
- **Volatile Organic Compounds:** Not Applicable
- **Percent volatile:** Negligible
- **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

Not determined

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>

**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**

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

Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**Skin Contact:**
Corrosive (Skin Burns): Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

Allergic Skin Reaction (non-photo induced): 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.

Dust created by cutting, grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Ingestion:**
May be harmful if swallowed.
Gastrointestinal Corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain; nausea; vomiting; and diarrhea; blood in the feces and/or vomitus may also be seen.

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

**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**
### Overall Product 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>Inhalation-Dust/Mist(4 hr)</td>
<td>No data available; calculated ATE &gt; 12.5 mg/l</td>
<td></td>
</tr>
<tr>
<td>Glass Bubbles</td>
<td>Ingestion</td>
<td>No data available; calculated ATE 2,000 - 5,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Flame Retardant</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 &gt; 8,000 mg/kg</td>
</tr>
<tr>
<td>Flame Retardant</td>
<td>Inhalation-Dust/Mist (4 hours)</td>
<td>Rat</td>
<td>LC50 &gt; 2.25 mg/l</td>
</tr>
<tr>
<td>Flame Retardant</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 25,000 mg/kg</td>
</tr>
<tr>
<td>bis(3-Aminopropyl) Ether of Diethylene Glycol</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 2,500 mg/kg</td>
</tr>
<tr>
<td>bis(3-Aminopropyl) Ether of Diethylene Glycol</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 3,160 mg/kg</td>
</tr>
<tr>
<td>2,4,6-tris(Dimethylamino)Methyl Phenol</td>
<td>Dermal</td>
<td>Rat</td>
<td>LD50 1,280 mg/kg</td>
</tr>
<tr>
<td>2,4,6-tris(Dimethylamino)Methyl Phenol</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 1,000 mg/kg</td>
</tr>
<tr>
<td>Triphenyl Phosphite</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 &gt; 2,000 mg/kg</td>
</tr>
<tr>
<td>Triphenyl Phosphite</td>
<td>Inhalation-Dust/Mist (4 hours)</td>
<td>Rat</td>
<td>LC50 &gt; 1.7 mg/l</td>
</tr>
<tr>
<td>Triphenyl Phosphite</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 1,590 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>Aliphatic Polymer Diamine</td>
<td>Rabbit</td>
<td>Irritant</td>
</tr>
<tr>
<td>Glass Bubbles</td>
<td>Professio nal judgeme nt</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>Polymeric Diamide</td>
<td>Rabbit</td>
<td>Irritant</td>
</tr>
<tr>
<td>bis(3-Aminopropyl) Ether of Diethylene Glycol</td>
<td>Rabbit</td>
<td>Corrosive</td>
</tr>
<tr>
<td>2,4,6-tris(Dimethylamino)Methyl Phenol</td>
<td>Rabbit</td>
<td>Corrosive</td>
</tr>
<tr>
<td>Triphenyl Phosphite</td>
<td>Rabbit</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>Aliphatic Polymer Diamine</td>
<td>similar health hazards</td>
<td>Corrosive</td>
</tr>
<tr>
<td>Glass Bubbles</td>
<td>Professio nal judgeme nt</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>Polymeric Diamide</td>
<td>similar health hazards</td>
<td>Corrosive</td>
</tr>
<tr>
<td>bis(3-Aminopropyl) Ether of Diethylene Glycol</td>
<td>similar health hazards</td>
<td>Corrosive</td>
</tr>
<tr>
<td>2,4,6-tris(Dimethylamino)Methyl Phenol</td>
<td>Rabbit</td>
<td>Corrosive</td>
</tr>
<tr>
<td>Triphenyl Phosphite</td>
<td>Rabbit</td>
<td>Moderate irritant</td>
</tr>
</tbody>
</table>

### Skin Sensitization

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aliphatic Polymer Diamine</td>
<td>Guinea pig</td>
<td>Sensitizing</td>
</tr>
<tr>
<td>Polymeric Diamide</td>
<td>Guinea pig</td>
<td>Sensitizing</td>
</tr>
<tr>
<td>2,4,6-tris(Dimethylamino)Methyl Phenol</td>
<td>Guinea pig</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>Triphenyl Phosphite</td>
<td>Mouse</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>Glass Bubbles</td>
<td>In Vitro</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>2,4,6-tris(Dimethylamino)Methyl Phenol</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>Glass Bubbles</td>
<td>Inhalation</td>
<td>Multiple animal species</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
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>bis(3-Aminopropyl) Ether of Diethylene Glycol</td>
<td>Inhalation</td>
<td>respiratory irritation</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
<td></td>
<td>NOAEL Not available</td>
<td></td>
</tr>
<tr>
<td>2,4,6-tris(Dimethylamino)Methyl Phenol</td>
<td>Inhalation</td>
<td>respiratory irritation</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
<td></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>Glass Bubbles</td>
<td>Inhalation</td>
<td>respiratory system</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
<td>Human</td>
<td>NOAEL not available</td>
<td>occupational exposure</td>
</tr>
<tr>
<td>2,4,6-tris(Dimethylamino)Methyl 1 Phenol</td>
<td>Dermal</td>
<td>skin</td>
<td>liver</td>
<td>nervous system</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
<td>Rat</td>
</tr>
<tr>
<td>2,4,6-tris(Dimethylamino)Methyl 1 Phenol</td>
<td>Dermal</td>
<td>auditory system</td>
<td>hematopoietic system</td>
<td>eyes</td>
<td>All data are negative</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.

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. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. 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](http://3M.com/Transportinfo) or call 1-800-364-3577 or 651-737-6501.

**SECTION 15: Regulatory information**

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

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

15.2. State Regulations
Contact 3M for more information.

15.3. Chemical Inventories
The components of this product are in compliance with the chemical notification requirements of TSCA.

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: 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.

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of 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.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from 3M

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