



Safety Data Sheet

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|------------------------|-----------|-------------------------|----------|
| Document Group: | 18-2239-4 | Version Number: | 3.00 |
| Issue Date: | 04/13/15 | Supersedes Date: | 11/28/12 |

Product identifier

3M™ Self-Leveling Seam Sealer, PN 08307

ID Number(s):

41-0003-8015-8, 41-3700-8997-5, 41-3701-2155-4, 60-9801-0580-7

Recommended use

Automotive, Two-part epoxy, self-leveling seam sealer.

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:

18-2290-7, 18-2289-9

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| | | | |
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| Document Group: | 18-2289-9 | Version Number: | 4.00 |
| Issue Date: | 01/21/15 | Supersedes Date: | 02/07/13 |

SECTION 1: Identification

1.1. Product identifier

3M™ Self-Leveling Seam Sealer PN 08307 Part A (Accelerator)

Product Identification Numbers

LB-K100-0061-0

1.2. Recommended use and restrictions on use

Recommended use

Automotive, This accelerator to be used with 3M(TM) Self-Leveling Seam Sealer - Part B (Base), Two-part epoxy type self-leveling seam sealer - Accelerator

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

Acute Toxicity (oral): Category 4.
Acute Toxicity (dermal): Category 4.
Serious Eye Damage/Irritation: Category 1.
Skin Corrosion/Irritation: Category 1C.

2.2. Label elements

Signal word

Danger

Symbols

Corrosion | Exclamation mark |

Pictograms



Hazard Statements

Harmful if swallowed.
 Harmful in contact with skin.
 Causes severe skin burns and eye damage.

Precautionary Statements

General:

Keep out of reach of children.

Prevention:

Do not breathe dust/fume/gas/mist/vapors/spray.
 Wear protective gloves, protective clothing, and eye/face protection.
 Do not eat, drink or smoke when using this product.
 Wash thoroughly after handling.

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.
 IF ON SKIN: Wash with plenty of soap and water.
 Immediately call a POISON CENTER or doctor/physician.
 Take off contaminated clothing and wash it 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.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---|---------------|-----------------------|
| Mercaptan-Terminated Epoxy Curing Agent | Trade Secret* | 88.4 (typically 88.4) |
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol | 90-72-2 | 7 - 13 Trade Secret * |
| Bis[(Dimethylamino)methyl] Phenol | 71074-89-0 | < 2 Trade Secret * |
| Modified Alkylpolysiloxane Copolymer | Trade Secret* | 1.45 (typically 1.45) |

*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 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

No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. 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

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 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

Avoid breathing of dust created by cutting, sanding, grinding or machining. Keep out of reach of children. 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. 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 oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

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

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|---|------------|--------|------------|---------------------|
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol | 90-72-2 | CMRG | TWA:5 ppm | |

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

8.2. Exposure controls

8.2.1. Engineering controls

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

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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

- Full Face Shield
- Indirect Vented Goggles

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following material(s) are recommended: Butyl Rubber
 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 – 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

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 |
| Odor, Color, Grade: | Yellow liquid with irritating sulfur-like odor. |
| Odor threshold | <i>No Data Available</i> |
| pH | <i>Not Applicable</i> |
| Melting point | <i>Not Applicable</i> |
| Boiling Point | >=200 °F [<i>Test Method: Estimated</i>] |
| Flash Point | >=300 °F [<i>Test Method: Closed Cup</i>] |
| Evaporation rate | <i>No Data Available</i> |
| Flammability (solid, gas) | Not Applicable |
| Flammable Limits(LEL) | <i>No Data Available</i> |
| Flammable Limits(UEL) | <i>No Data Available</i> |
| Vapor Pressure | <=27 psia |
| Vapor Density | <i>No Data Available</i> |
| Density | 1.12 g/ml |
| Specific Gravity | 1.12 [<i>Ref Std: WATER=1</i>] |
| Solubility in Water | Slight (less than 10%) |
| Solubility- non-water | <i>No Data Available</i> |
| Partition coefficient: n-octanol/ water | <i>No Data Available</i> |
| Autoignition temperature | <i>No Data Available</i> |
| Decomposition temperature | <i>No Data Available</i> |
| Viscosity | 10,000 - 15,000 centipoise |
| Hazardous Air Pollutants | 0.000158 lb HAPS/lb solids [<i>Test Method: Calculated</i>] |
| Volatile Organic Compounds | 12 g/l [<i>Test Method: calculated SCAQMD rule 443.1</i>] |
| Volatile Organic Compounds | 1.1 % weight [<i>Test Method: calculated per CARB title 2</i>] |
| VOC Less H2O & Exempt Solvents | 12 g/l [<i>Test Method: calculated SCAQMD rule 443.1</i>] |

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

Strong acids

Strong oxidizing agents

10.6. Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|-------------------------------|------------------|
| Carbon monoxide | Not Specified |
| Carbon dioxide | Not Specified |
| Oxides of Sulfur | Not Specified |
| Toxic Vapor, Gas, Particulate | Not Specified |

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:

Harmful in contact with skin. Corrosive (Skin Burns): Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

Eye Contact:

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

Ingestion:

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.

Toxicological Data

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

Acute Toxicity

| Name | Route | Species | Value |
|---|-----------|---------|---|
| Overall product | Dermal | | No data available; calculated ATE 1,000 - 2,000 mg/kg |
| Overall product | Ingestion | | No data available; calculated ATE 300 - 2,000 mg/kg |
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol | Dermal | Rat | LD50 1,280 mg/kg |
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol | Ingestion | Rat | LD50 1,000 mg/kg |
| Bis[(Dimethylamino)methyl] Phenol | Ingestion | | LD50 estimated to be 300 - 2,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|------|---------|-------|
| | | |

| | | |
|---|-------------------|-----------|
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol | Rabbit | Corrosive |
| Bis[(Dimethylamino)methyl] Phenol | similar compounds | Corrosive |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---|-------------------|-----------|
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol | Rabbit | Corrosive |
| Bis[(Dimethylamino)methyl] Phenol | similar compounds | Corrosive |

Skin Sensitization

| Name | Species | Value |
|---|------------|--|
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol | Guinea pig | Some positive data exist, but the data are not sufficient for classification |

Respiratory Sensitization

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

Germ Cell Mutagenicity

| Name | Route | Value |
|---|----------|---------------|
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol | In Vitro | Not mutagenic |

Carcinogenicity

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

Reproductive Toxicity

Reproductive and/or Developmental Effects

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

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|------------|------------------------|--|---------|---------------------|-------------------|
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|--------|---|--|---------|---------------------|-------------------|
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol | Dermal | skin liver nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 125 mg/kg/day | 28 days |
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol | Dermal | auditory system hematopoietic system eyes | All data are negative | Rat | NOAEL 125 mg/kg/day | 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.

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.

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.

California Proposition 65

| <u>Ingredient</u> | <u>C.A.S. No.</u> | <u>Classification</u> |
|-------------------|-------------------|-------------------------|
| Benzene | 71-43-2 | Male reproductive toxin |
| Benzene | 71-43-2 | Carcinogen |
| Benzene | 71-43-2 | Developmental Toxin |

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

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: 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.

HMIS Hazard Classification

Health: *3 **Flammability:** 1 **Physical Hazard:** 0 **Personal Protection:** C

Hazardous Material Identification System (HMIS® III) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® III ratings are to be used with a fully implemented HMIS® III program. HMIS® is a registered mark of the American Coatings Association (ACA).

| | | | |
|------------------------|-----------|-------------------------|----------|
| Document Group: | 18-2289-9 | Version Number: | 4.00 |
| Issue Date: | 01/21/15 | Supersedes Date: | 02/07/13 |

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|------------------------|-----------|-------------------------|----------|
| Document Group: | 18-2290-7 | Version Number: | 4.02 |
| Issue Date: | 01/23/15 | Supersedes Date: | 02/07/13 |

SECTION 1: Identification

1.1. Product identifier

3M™ Self-Leveling Seam Sealer PN 08307 Part B (Base) PN 08307

Product Identification Numbers

LB-K100-0053-0

1.2. Recommended use and restrictions on use

Recommended use

Automotive, This base to be used with 3M(TM) Self-Leveling Seam Sealer - Part A (Accelerator), Two-part epoxy type self-leveling seam sealer - Base

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 2B.

Skin Sensitizer: Category 1.

2.2. Label elements

Signal word

Warning

Symbols

Exclamation mark |

Pictograms

**Hazard Statements**

Causes eye irritation.
May cause an allergic skin reaction.

Precautionary Statements**General:**

Keep out of reach of children.

Prevention:

Avoid breathing dust/fume/gas/mist/vapors/spray.
Wear protective gloves.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.

Disposal:

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

2.3. Hazards not otherwise classified

None.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---|------------|--------------------------|
| Bisphenol A-Epichlorohydrin Epoxy Resin | 25068-38-6 | 50 - 90 Trade Secret * |
| Epichlorohydrin Castor Oil Based Epoxy Resin | 74398-71-3 | 10 - 30 Trade Secret * |
| Dimethyl Siloxane, Reaction Product With Silica | 67762-90-7 | 0.5 - 1.5 Trade Secret * |
| Epichlorohydrin | 106-89-8 | < 0.02 Trade Secret * |

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

SECTION 4: First aid measures

4.1. Description of first aid measures**Inhalation:**

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

Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop,

get medical attention.

Eye Contact:

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

If Swallowed:

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

4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Contain spill. 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

Avoid breathing of dust created by cutting, sanding, grinding or machining. Keep out of reach of children. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. 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 oxidizing agents. Store away from amines.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational exposure limits**

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

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|---|-------------------|---------------|---|---|
| Epichlorohydrin | 106-89-8 | ACGIH | TWA:0.5 ppm | A3: Confirmed animal carcin., Skin Notation |
| Epichlorohydrin | 106-89-8 | OSHA | TWA:19 mg/m ³ (5 ppm) | Skin Notation |
| Dimethyl Siloxane, Reaction Product With Silica | 67762-90-7 | CMRG | CEIL:5 mg/m ³ | |
| SILICA, AMORPHOUS | 67762-90-7 | OSHA | TWA concentration:0.8 mg/m ³ ;TWA:20 millions of particles/cu. ft. | |

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:

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

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

| | |
|--|---|
| General Physical Form: | Liquid |
| Specific Physical Form: | Viscous |
| Odor, Color, Grade: | Clear viscous liquid, slight odor |
| Odor threshold | <i>No Data Available</i> |
| pH | <i>Not Applicable</i> |
| Melting point | <i>Not Applicable</i> |
| Boiling Point | >=200 °F |
| Flash Point | >=200 °F [<i>Test Method:</i> Closed Cup] |
| Evaporation rate | <i>No Data Available</i> |
| Flammability (solid, gas) | Not Applicable |
| Flammable Limits(LEL) | <i>No Data Available</i> |
| Flammable Limits(UEL) | <i>No Data Available</i> |
| Vapor Pressure | <=27 psia |
| Vapor Density | <i>No Data Available</i> |
| Density | 1.17 g/ml |
| Specific Gravity | 1.17 [<i>Ref Std:</i> WATER=1] |
| Solubility in Water | Nil |
| Solubility- non-water | <i>No Data Available</i> |
| Partition coefficient: n-octanol/ water | <i>No Data Available</i> |
| Autoignition temperature | <i>No Data Available</i> |
| Decomposition temperature | <i>No Data Available</i> |
| Viscosity | 5,000 - 15,000 centipoise [<i>Test Method:</i> Brookfield] |
| Hazardous Air Pollutants | 0.014 lb HAPS/lb solids [<i>Test Method:</i> Calculated] |
| Volatile Organic Compounds | 1 g/l [<i>Test Method:</i> calculated SCAQMD rule 443.1] |
| Volatile Organic Compounds | 0.1 % weight [<i>Test Method:</i> calculated per CARB title 2] |
| VOC Less H2O & Exempt Solvents | 1 g/l [<i>Test Method:</i> 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

Not determined

10.5. Incompatible materials

Strong oxidizing agents

Amines
Strong acids

10.6. Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|-------------------------------|------------------|
| Aldehydes | Not Specified |
| Carbon monoxide | Not Specified |
| Carbon dioxide | Not Specified |
| Toxic Vapor, Gas, Particulate | Not Specified |

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:

Vapors released during curing may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin Contact:

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

Eye Contact:

Moderate 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.

Carcinogenicity:

| <u>Ingredient</u> | <u>CAS No.</u> | <u>Class Description</u> | <u>Regulation</u> |
|-------------------|----------------|-------------------------------|---|
| Epichlorohydrin | 106-89-8 | Grp. 2A: Probable human carc. | International Agency for Research on Cancer |
| Epichlorohydrin | 106-89-8 | Anticipated human carcinogen | National Toxicology Program Carcinogens |

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

| <u>Name</u> | <u>Route</u> | <u>Species</u> | <u>Value</u> |
|---|--------------|----------------|---|
| Overall product | Ingestion | | No data available; calculated ATE > 5,000 mg/kg |
| Bisphenol A-Epichlorohydrin Epoxy Resin | Dermal | Rat | LD50 > 1,600 mg/kg |
| Bisphenol A-Epichlorohydrin Epoxy Resin | Ingestion | Rat | LD50 > 1,000 mg/kg |
| Epichlorohydrin Castor Oil Based Epoxy Resin | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Epichlorohydrin Castor Oil Based Epoxy Resin | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Dimethyl Siloxane, Reaction Product With Silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |

| | | | |
|---|--------------------------------|--------|--------------------|
| Dimethyl Siloxane, Reaction Product With Silica | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Dimethyl Siloxane, Reaction Product With Silica | Ingestion | Rat | LD50 > 5,110 mg/kg |
| Epichlorohydrin | Dermal | Rabbit | LD50 755 mg/kg |
| Epichlorohydrin | Inhalation-Vapor (4 hours) | Rat | LC50 1.7 mg/l |
| Epichlorohydrin | Ingestion | Rat | LD50 260 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---|------------------|---------------------------|
| Bisphenol A-Epichlorohydrin Epoxy Resin | Rabbit | Mild irritant |
| Dimethyl Siloxane, Reaction Product With Silica | Rabbit | No significant irritation |
| Epichlorohydrin | Human and animal | Corrosive |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---|---------|---------------------------|
| Bisphenol A-Epichlorohydrin Epoxy Resin | Rabbit | Moderate irritant |
| Dimethyl Siloxane, Reaction Product With Silica | Rabbit | No significant irritation |
| Epichlorohydrin | Rabbit | Corrosive |

Skin Sensitization

| Name | Species | Value |
|---|------------------|-----------------|
| Bisphenol A-Epichlorohydrin Epoxy Resin | Human and animal | Sensitizing |
| Dimethyl Siloxane, Reaction Product With Silica | Human and animal | Not sensitizing |
| Epichlorohydrin | Human and animal | Sensitizing |

Respiratory Sensitization

| Name | Species | Value |
|---|---------|--|
| Bisphenol A-Epichlorohydrin Epoxy Resin | Human | Some positive data exist, but the data are not sufficient for classification |

Germ Cell Mutagenicity

| Name | Route | Value |
|---|----------|--|
| Bisphenol A-Epichlorohydrin Epoxy Resin | In vivo | Not mutagenic |
| Bisphenol A-Epichlorohydrin Epoxy Resin | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Dimethyl Siloxane, Reaction Product With Silica | In Vitro | Not mutagenic |
| Epichlorohydrin | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Epichlorohydrin | In vivo | Mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|---|---------------|---------|--|
| Bisphenol A-Epichlorohydrin Epoxy Resin | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Dimethyl Siloxane, Reaction Product With Silica | Not Specified | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Epichlorohydrin | Dermal | Mouse | Not carcinogenic |
| Epichlorohydrin | Ingestion | Rat | Carcinogenic |

| | | | |
|-----------------|------------|-----|--------------|
| Epichlorohydrin | Inhalation | Rat | Carcinogenic |
|-----------------|------------|-----|--------------|

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|---|------------|--|-------------------------|-----------------------|----------------------|
| Bisphenol A-Epichlorohydrin Epoxy Resin | Ingestion | Not toxic to female reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| Bisphenol A-Epichlorohydrin Epoxy Resin | Ingestion | Not toxic to male reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| Bisphenol A-Epichlorohydrin Epoxy Resin | Dermal | Not toxic to development | Rabbit | NOAEL 300 mg/kg/day | during organogenesis |
| Bisphenol A-Epichlorohydrin Epoxy Resin | Ingestion | Not toxic to development | Rat | NOAEL 750 mg/kg/day | 2 generation |
| Dimethyl Siloxane, Reaction Product With Silica | Ingestion | Not toxic to female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Dimethyl Siloxane, Reaction Product With Silica | Ingestion | Not toxic to male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Dimethyl Siloxane, Reaction Product With Silica | Ingestion | Not toxic to development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |
| Epichlorohydrin | Inhalation | Not toxic to female reproduction | Rat | NOAEL 0.2 mg/l | 10 weeks |
| Epichlorohydrin | Inhalation | Not toxic to development | Multiple animal species | NOAEL 0.09 mg/l | during organogenesis |
| Epichlorohydrin | Ingestion | Some positive developmental data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL 160 mg/kg/day | during gestation |
| Epichlorohydrin | Ingestion | Toxic to male reproduction | Rat | LOAEL 6.25 mg/kg/day | 23 days |
| Epichlorohydrin | Inhalation | Toxic to male reproduction | Rat | NOAEL 0.02 mg/l | 10 weeks |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|-----------------|------------|------------------------|--|---------|---------------------|-----------------------|
| Epichlorohydrin | Inhalation | respiratory irritation | May cause respiratory irritation | Human | NOAEL not available | occupational exposure |
| Epichlorohydrin | Inhalation | liver | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL not available | occupational exposure |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|------------|--|--|---------|-----------------------|-----------------------|
| Bisphenol A-Epichlorohydrin Epoxy Resin | Dermal | liver | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1,000 mg/kg/day | 2 years |
| Bisphenol A-Epichlorohydrin Epoxy Resin | Dermal | nervous system | All data are negative | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| Bisphenol A-Epichlorohydrin Epoxy Resin | Ingestion | auditory system heart endocrine system hematopoietic system liver eyes kidney and/or bladder | All data are negative | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Dimethyl Siloxane, Reaction Product With Silica | Inhalation | respiratory system silicosis | All data are negative | Human | NOAEL Not available | occupational exposure |

| | | | | | | |
|-----------------|------------|-----------------------|--|-------------------------|--------------------|-----------|
| Epichlorohydrin | Inhalation | liver | Causes damage to organs through prolonged or repeated exposure | Rat | NOAEL 0.21 mg/l | 19 days |
| Epichlorohydrin | Inhalation | kidney and/or bladder | May cause damage to organs through prolonged or repeated exposure | Rat | NOAEL 0.04 mg/l | 136 weeks |
| Epichlorohydrin | Inhalation | endocrine system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 0.377 mg/l | 4 weeks |
| Epichlorohydrin | Inhalation | immune system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 0.211 mg/l | 4 weeks |
| Epichlorohydrin | Inhalation | heart | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 0.02 mg/l | 98 days |
| Epichlorohydrin | Inhalation | nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL .002 mg/l | 98 days |
| Epichlorohydrin | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL 0.02 mg/l | 13 weeks |
| Epichlorohydrin | Inhalation | blood | All data are negative | Rat | NOAEL 0.189 mg/l | 90 days |
| Epichlorohydrin | Ingestion | heart blood | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 80 mg/kg/day | 12 weeks |
| Epichlorohydrin | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 25 mg/kg/day | 90 days |

Aspiration Hazard

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

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

SECTION 12: Ecological information

Ecotoxicological information

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

Chemical fate information

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

SECTION 13: Disposal considerations

13.1. Disposal methods

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

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.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - Yes Immediate Hazard - Yes Delayed Hazard - Yes

15.2. State Regulations

Contact 3M for more information.

California Proposition 65

| <u>Ingredient</u> | <u>C.A.S. No.</u> | <u>Classification</u> |
|-------------------|-------------------|-------------------------|
| Epichlorohydrin | 106-89-8 | Male reproductive toxin |
| Epichlorohydrin | 106-89-8 | Carcinogen |

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

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: 1 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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