



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3M™ Scotch-Weld™ Low Odor Acrylic Adhesive 8725NS, Black, Part B

Product Identification Numbers

62-2874-8530-4, 62-2874-9530-3
7100244862, 7100244861

1.2. Recommended use and restrictions on use

Recommended use

Adhesive

1.3. Supplier's details

| | |
|----------------------|---|
| MANUFACTURER: | 3M |
| DIVISION: | Industrial Adhesives and Tapes Division |
| ADDRESS: | 3M Center, St. Paul, MN 55144-1000, USA |
| Telephone: | 1-888-3M HELPS (1-888-364-3577) |

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification

Skin Corrosion/Irritation: Category 2.
Serious Eye Damage/Irritation: Category 1.
Skin Sensitizer: Category 1.

2.2. Label elements

Signal word

Danger

Symbols

Corrosion | Exclamation mark |

Pictograms



Hazard Statements

Causes skin irritation.
Causes serious eye damage.
May cause an allergic skin reaction.

Precautionary statements

Prevention:

Avoid breathing vapors.
Wash exposed skin thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves, eye protection, and face protection.

Response:

IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Immediately call a POISON CENTER or doctor.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation or rash occurs: Get medical attention.
Take off contaminated clothing and wash it before reuse.

Disposal:

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

29% of the mixture consists of ingredients of unknown acute oral toxicity.
32% of the mixture consists of ingredients of unknown acute dermal toxicity.
63% of the mixture consists of ingredients of unknown acute inhalation toxicity.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|--|---------------|-----------|
| Hydroxyethyl Methacrylate | 868-77-9 | 22 - 51 |
| Butadiene-Acrylonitrile Polymer | 9003-18-3 | 1 - 15 |
| Cyclohexyl methacrylate | 101-43-9 | 4.9 - 15 |
| Lauryl methacrylate | 142-90-5 | 1 - 15 |
| Proprietary polymer (NJTS Reg. No. 04499600-7478) | Trade Secret* | 6 - 15 |
| Acrylic Copolymer (NJTS Reg. No. 04499600-7448) | Trade Secret* | <= 10 |
| Amorphous silica | 67762-90-7 | 1 - 5 |
| Hexadecyl methacrylate | 2495-27-4 | 0.1 - 5 |
| Myristyl methacrylate | 2549-53-3 | 1 - 5 |
| Urethane Acrylate Oligomer (NJTS Reg. No. 04499600-7410) | Trade Secret* | 0.1 - 5 |
| Benzyltributylammonium Chloride | 23616-79-7 | < 3 |
| Phosphate methacrylate | 1627542-04-4 | < 3 |
| Hydroxypropyl methacrylate | 27813-02-1 | 0.3 - 1.8 |
| DIETHYLENE GLYCOL, MONOMETHACRYLATE | 2351-43-1 | <= 1 |
| Methyl Methacrylate | 80-62-6 | < 1 |

| | | |
|---------------------|-----------|----------|
| Carbon Black | 1333-86-4 | <= 0.9 |
| Copper Naphthenates | 1338-02-9 | < 0.25 |
| 1,3-BUTADIENE | 106-99-0 | <= 0.015 |

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

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

Skin Contact:

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

Eye Contact:

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

If Swallowed:

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

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

Allergic skin reaction (redness, swelling, blistering, and itching). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide
 Carbon dioxide
 Hydrogen Chloride
 Oxides of Nitrogen

Condition

During Combustion
 During Combustion
 During Combustion
 During Combustion

5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

For industrial/occupational use only. Not for consumer sale or use. 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 heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents. Store away from amines.

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

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

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|--------------------------------|------------|--------|--|------------------------------|
| 1,3-BUTADIENE | 106-99-0 | ACGIH | TWA:2 ppm | A2: Suspected human carcin. |
| 1,3-BUTADIENE | 106-99-0 | OSHA | TWA:1 ppm;STEL:5 ppm | 29 CFR 1910.1051 |
| Carbon Black | 1333-86-4 | ACGIH | TWA(inhalable fraction):3 mg/m3 | A3: Confirmed animal carcin. |
| Carbon Black | 1333-86-4 | OSHA | TWA:3.5 mg/m3 | |
| Copper, dusts and mists, as Cu | 1338-02-9 | ACGIH | TWA(as Cu, fume):0.2 mg/m3;TWA(as Cu dust or mist):1 mg/m3 | |
| Silica: Amorphous, including | 67762-90-7 | OSHA | TWA:20 millions of | |

| | | | | |
|----------------------------|---------|-------|---|---|
| natural diatomaceous earth | | | particles/cu. ft.;TWA concentration:0.8 mg/m3 | |
| Methyl Methacrylate | 80-62-6 | ACGIH | TWA:50 ppm;STEL:100 ppm | A4: Not class. as human carcin, Dermal Sensitizer |
| Methyl Methacrylate | 80-62-6 | OSHA | TWA:410 mg/m3(100 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. 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 (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

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
- Half facepiece or full facepiece supplied-air respirator

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

| | |
|----------------|--------|
| Physical state | Liquid |
|----------------|--------|

| | |
|---|--|
| Specific Physical Form: | Paste |
| Color | Black |
| Odor | Mild Acrylate |
| Odor threshold | No Data Available |
| pH | Not Applicable |
| Melting point/Freezing point | Not Applicable |
| Boiling point/Initial boiling point/Boiling range | No Data Available |
| Flash Point | > 93.3 °C [Test Method: Closed Cup] |
| Evaporation rate | No Data Available |
| Flammability | Not Applicable |
| Flammable Limits(LEL) | No Data Available |
| Flammable Limits(UEL) | No Data Available |
| Vapor Pressure | No Data Available |
| Relative Vapor Density | No Data Available |
| Density | 1.04 g/ml |
| Relative Density | 1.04 [Ref Std: WATER=1] |
| Water solubility | 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 |
| Kinematic Viscosity | 38,462 mm ² /sec |
| Volatile Organic Compounds | No Data Available |
| Percent volatile | No Data Available |
| VOC Less H ₂ O & Exempt Solvents | <=10 g/l [Test Method: calculated SCAQMD rule 443.1] [Details: when used as intended with Part A] |
| VOC Less H ₂ O & Exempt Solvents | <=575 g/l [Test Method: calculated SCAQMD rule 443.1] [Details: as supplied] |
| VOC Less H ₂ O & Exempt Solvents | <=1 % [Test Method: calculated SCAQMD rule 443.1] [Details: when used as intended with Part A] |
| Molecular weight | Not Applicable |

| | |
|--------------------------|----------------|
| Particle Characteristics | Not Applicable |
|--------------------------|----------------|

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat

Sparks and/or flames

10.5. Incompatible materials

Amines

Strong acids
Strong bases
Strong oxidizing agents

10.6. Hazardous decomposition products

Substance

Condition

None known.

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.

Skin Contact:

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

Eye Contact:

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

Ingestion:

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

Carcinogenicity:

| Ingredient | CAS No. | Class Description | Regulation |
|-------------------|----------------|--------------------------------|---|
| 1,3-Butadiene | 106-99-0 | Known To Be Human Carcinogen. | National Toxicology Program Carcinogens |
| 1,3-Butadiene | 106-99-0 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| 1,3-BUTADIENE | 106-99-0 | Cancer hazard | OSHA Carcinogens |
| Carbon black | 1333-86-4 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

Toxicological Data

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

Acute Toxicity

| Name | Route | Species | Value |
|-----------------|------------------------|----------------|--|
| Overall product | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Inhalation-Vapor(4 hr) | | No data available; calculated ATE >50 mg/l |

| | | | |
|-------------------------------------|--------------------------------|------------------------|--|
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Hydroxyethyl Methacrylate | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Hydroxyethyl Methacrylate | Ingestion | Rat | LD50 5,564 mg/kg |
| Cyclohexyl methacrylate | Dermal | Rat | LD50 > 2,000 mg/kg |
| Cyclohexyl methacrylate | Ingestion | Rat | LD50 12,900 mg/kg |
| Cyclohexyl methacrylate | Inhalation-Vapor | similar compounds | LC50 estimated to be 20 - 50 mg/l |
| Lauryl methacrylate | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Lauryl methacrylate | Dermal | similar compounds | LD50 > 3,000 mg/kg |
| Butadiene-Acrylonitrile Polymer | Dermal | Rabbit | LD50 > 15,000 mg/kg |
| Butadiene-Acrylonitrile Polymer | Ingestion | Rat | LD50 > 30,000 mg/kg |
| Amorphous silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Amorphous silica | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Amorphous silica | Ingestion | Rat | LD50 > 5,110 mg/kg |
| Myristyl methacrylate | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| Myristyl methacrylate | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Phosphate methacrylate | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Phosphate methacrylate | Dermal | similar health hazards | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Benzyltributylammonium Chloride | Ingestion | Not available | LD50 500 mg/kg |
| Hydroxypropyl methacrylate | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Hydroxypropyl methacrylate | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Hexadecyl methacrylate | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| Hexadecyl methacrylate | Ingestion | Rat | LD50 > 5,000 mg/kg |
| DIETHYLENE GLYCOL, MONOMETHACRYLATE | Dermal | similar compounds | LD50 > 5,000 mg/kg |
| DIETHYLENE GLYCOL, MONOMETHACRYLATE | Ingestion | similar compounds | LD50 5,564 mg/kg |
| Carbon Black | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| Carbon Black | Ingestion | Rat | LD50 > 8,000 mg/kg |
| Methyl Methacrylate | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Methyl Methacrylate | Inhalation-Vapor (4 hours) | Rat | LC50 29.8 mg/l |
| Methyl Methacrylate | Ingestion | Rat | LD50 7,900 mg/kg |
| Copper Naphthenates | Dermal | similar compounds | LD50 > 2,000 mg/kg |
| Copper Naphthenates | Ingestion | similar compounds | LD50 >300, < 2,000 mg/kg |
| 1,3-BUTADIENE | Inhalation-Gas (4 hours) | Rat | LC50 129,000 ppm |
| 1,3-BUTADIENE | Ingestion | Rat | LD50 5,480 mg/kg |
| 1,3-BUTADIENE | Dermal | similar health hazards | LD50 estimated to be > 5,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---------------------------|---------|--------------------|
| Hydroxyethyl Methacrylate | Rabbit | Minimal irritation |
| Cyclohexyl methacrylate | Rabbit | Minimal irritation |
| Lauryl methacrylate | similar | Minimal irritation |

| | | |
|-------------------------------------|------------------------|---------------------------|
| | compounds | |
| Butadiene-Acrylonitrile Polymer | Professional judgement | No significant irritation |
| Amorphous silica | Rabbit | No significant irritation |
| Myristyl methacrylate | Rabbit | Minimal irritation |
| Phosphate methacrylate | Professional judgement | No significant irritation |
| Benzyltributylammonium Chloride | Guinea pig | Corrosive |
| Hydroxypropyl methacrylate | Rabbit | Minimal irritation |
| Hexadecyl methacrylate | Rabbit | Minimal irritation |
| DIETHYLENE GLYCOL, MONOMETHACRYLATE | similar compounds | Minimal irritation |
| Carbon Black | Rabbit | No significant irritation |
| Methyl Methacrylate | Rabbit | Irritant |
| Copper Naphthenates | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|-------------------------------------|------------------------|---------------------------|
| Hydroxyethyl Methacrylate | Rabbit | Moderate irritant |
| Cyclohexyl methacrylate | In vitro data | Severe irritant |
| Lauryl methacrylate | similar compounds | No significant irritation |
| Butadiene-Acrylonitrile Polymer | Professional judgement | No significant irritation |
| Amorphous silica | Rabbit | No significant irritation |
| Myristyl methacrylate | Rabbit | No significant irritation |
| Phosphate methacrylate | Professional judgement | Corrosive |
| Benzyltributylammonium Chloride | similar health hazards | Corrosive |
| Hydroxypropyl methacrylate | Rabbit | Moderate irritant |
| Hexadecyl methacrylate | Rabbit | No significant irritation |
| DIETHYLENE GLYCOL, MONOMETHACRYLATE | similar compounds | Moderate irritant |
| Carbon Black | Rabbit | No significant irritation |
| Methyl Methacrylate | Rabbit | Mild irritant |
| Copper Naphthenates | In vitro data | No significant irritation |
| 1,3-BUTADIENE | Human | Mild irritant |

Skin Sensitization

| Name | Species | Value |
|---------------------------|------------------|----------------|
| Hydroxyethyl Methacrylate | Human and animal | Sensitizing |
| Cyclohexyl methacrylate | Mouse | Sensitizing |
| Lauryl methacrylate | Guinea pig | Not classified |
| Amorphous silica | Human | Not classified |

| | | |
|-------------------------------------|------------------------|--|
| | and animal | |
| Myristyl methacrylate | Professional judgement | Some positive data exist, but the data are not sufficient for classification |
| Phosphate methacrylate | Professional judgement | Sensitizing |
| Hydroxypropyl methacrylate | Human and animal | Sensitizing |
| Hexadecyl methacrylate | Mouse | Some positive data exist, but the data are not sufficient for classification |
| DIETHYLENE GLYCOL, MONOMETHACRYLATE | similar compounds | Sensitizing |
| Methyl Methacrylate | Human and animal | Sensitizing |
| Copper Naphthenates | Guinea pig | Not classified |

Respiratory Sensitization

| Name | Species | Value |
|---------------------|---------|----------------|
| Methyl Methacrylate | Human | Not classified |

Germ Cell Mutagenicity

| Name | Route | Value |
|-------------------------------------|----------|--|
| Hydroxyethyl Methacrylate | In vivo | Not mutagenic |
| Hydroxyethyl Methacrylate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Cyclohexyl methacrylate | In Vitro | Not mutagenic |
| Lauryl methacrylate | In Vitro | Not mutagenic |
| Lauryl methacrylate | In vivo | Not mutagenic |
| Amorphous silica | In Vitro | Not mutagenic |
| Myristyl methacrylate | In Vitro | Not mutagenic |
| Phosphate methacrylate | In Vitro | Not mutagenic |
| Hydroxypropyl methacrylate | In vivo | Not mutagenic |
| Hydroxypropyl methacrylate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| DIETHYLENE GLYCOL, MONOMETHACRYLATE | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Carbon Black | In Vitro | Not mutagenic |
| Carbon Black | In vivo | Some positive data exist, but the data are not sufficient for classification |
| Methyl Methacrylate | In vivo | Not mutagenic |
| Methyl Methacrylate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 1,3-BUTADIENE | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 1,3-BUTADIENE | In vivo | Mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|---------------------|---------------|---------|--|
| Amorphous silica | Not Specified | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Carbon Black | Dermal | Mouse | Not carcinogenic |
| Carbon Black | Ingestion | Mouse | Not carcinogenic |
| Carbon Black | Inhalation | Rat | Carcinogenic |
| Methyl Methacrylate | Ingestion | Rat | Not carcinogenic |

| | | | |
|---------------------|------------|------------------|------------------|
| Methyl Methacrylate | Inhalation | Human and animal | Not carcinogenic |
| 1,3-BUTADIENE | Inhalation | Human and animal | Carcinogenic |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|----------------------------|------------|--|---------|-----------------------|--------------------------------|
| Hydroxyethyl Methacrylate | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| Hydroxyethyl Methacrylate | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 49 days |
| Hydroxyethyl Methacrylate | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| Cyclohexyl methacrylate | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | prematuring into lactation |
| Cyclohexyl methacrylate | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 15 weeks |
| Cyclohexyl methacrylate | Ingestion | Not classified for development | Rabbit | NOAEL 500 mg/kg/day | during gestation |
| Lauryl methacrylate | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | prematuring into lactation |
| Lauryl methacrylate | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 6 weeks |
| Lauryl methacrylate | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | prematuring into lactation |
| Amorphous silica | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Amorphous silica | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Amorphous silica | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |
| Hydroxypropyl methacrylate | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | prematuring into lactation |
| Hydroxypropyl methacrylate | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 49 days |
| Hydroxypropyl methacrylate | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during gestation |
| Methyl Methacrylate | Ingestion | Not classified for female reproduction | Rat | NOAEL 400 mg/kg/day | 2 generation |
| Methyl Methacrylate | Ingestion | Not classified for male reproduction | Rat | NOAEL 400 mg/kg/day | 2 generation |
| Methyl Methacrylate | Ingestion | Not classified for development | Rabbit | NOAEL 450 mg/kg/day | during gestation |
| Methyl Methacrylate | Inhalation | Not classified for development | Rat | NOAEL 8.3 mg/l | during organogenesis |
| 1,3-BUTADIENE | Inhalation | Not classified for development | Mouse | NOAEL 40 ppm | during gestation |
| 1,3-BUTADIENE | Inhalation | Toxic to female reproduction | Mouse | LOAEL 6.25 ppm | 2 years |
| 1,3-BUTADIENE | Inhalation | Toxic to male reproduction | Mouse | NOAEL 200 ppm | 2 years |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure |
|------|-------|-----------------|-------|---------|-------------|----------|
|------|-------|-----------------|-------|---------|-------------|----------|

| | | | | | | Duration |
|-------------------------------------|------------|------------------------|--|-------------------------|---------------------|-----------------------|
| Cyclohexyl methacrylate | Inhalation | respiratory irritation | May cause respiratory irritation | official classification | NOAEL Not available | |
| Lauryl methacrylate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Professional judgement | NOAEL Not available | |
| Myristyl methacrylate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Professional judgement | NOAEL not available | |
| Phosphate methacrylate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Benzyltributylammonium Chloride | Inhalation | respiratory irritation | May cause respiratory irritation | similar health hazards | NOAEL Not available | |
| Hydroxypropyl methacrylate | Inhalation | respiratory irritation | May cause respiratory irritation | similar compounds | NOAEL Not available | |
| DIETHYLENE GLYCOL, MONOMETHACRYLATE | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Methyl Methacrylate | Inhalation | respiratory irritation | May cause respiratory irritation | Human | NOAEL Not available | occupational exposure |
| 1,3-BUTADIENE | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|----------------------------|------------|-----------------------|----------------|---------|-----------------------|-----------------------|
| Cyclohexyl methacrylate | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 15 weeks |
| Cyclohexyl methacrylate | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 15 weeks |
| Cyclohexyl methacrylate | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 15 weeks |
| Cyclohexyl methacrylate | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 15 weeks |
| Cyclohexyl methacrylate | Ingestion | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 15 weeks |
| Cyclohexyl methacrylate | Ingestion | eyes | Not classified | Rat | NOAEL 1,000 mg/kg/day | 15 weeks |
| Lauryl methacrylate | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 6 weeks |
| Lauryl methacrylate | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 6 weeks |
| Lauryl methacrylate | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 6 weeks |
| Amorphous silica | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| Amorphous silica | Inhalation | silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| Hydroxypropyl methacrylate | Inhalation | blood | Not classified | Rat | NOAEL 0.5 mg/l | 21 days |
| Hydroxypropyl | Ingestion | hematopoietic | Not classified | Rat | NOAEL | 41 days |

| | | | | | | |
|----------------------------|------------|---------------------------|--|-------------------------|-----------------------|-----------------------|
| methacrylate | | system | | | 1,000 mg/kg/day | |
| Hydroxypropyl methacrylate | Ingestion | heart | Not classified | Rat | NOAEL 1,000 mg/kg/day | 41 days |
| Hydroxypropyl methacrylate | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 41 days |
| Hydroxypropyl methacrylate | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 41 days |
| Hydroxypropyl methacrylate | Ingestion | immune system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 41 days |
| Hydroxypropyl methacrylate | Ingestion | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 41 days |
| Hydroxypropyl methacrylate | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 41 days |
| Carbon Black | Inhalation | pneumoconiosis | Not classified | Human | NOAEL Not available | occupational exposure |
| Methyl Methacrylate | Dermal | peripheral nervous system | Not classified | Human | NOAEL Not available | occupational exposure |
| Methyl Methacrylate | Inhalation | olfactory system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| Methyl Methacrylate | Inhalation | kidney and/or bladder | Not classified | Multiple animal species | NOAEL Not available | 14 weeks |
| Methyl Methacrylate | Inhalation | liver | Not classified | Mouse | NOAEL 12.3 mg/l | 14 weeks |
| Methyl Methacrylate | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| Methyl Methacrylate | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 90.3 mg/kg/day | 2 years |
| Methyl Methacrylate | Ingestion | heart | Not classified | Rat | NOAEL 90.3 mg/kg/day | 2 years |
| Methyl Methacrylate | Ingestion | skin | Not classified | Rat | NOAEL 90.3 mg/kg/day | 2 years |
| Methyl Methacrylate | Ingestion | endocrine system | Not classified | Rat | NOAEL 90.3 mg/kg/day | 2 years |
| Methyl Methacrylate | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 90.3 mg/kg/day | 2 years |
| Methyl Methacrylate | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 90.3 mg/kg/day | 2 years |
| Methyl Methacrylate | Ingestion | liver | Not classified | Rat | NOAEL 90.3 mg/kg/day | 2 years |
| Methyl Methacrylate | Ingestion | muscles | Not classified | Rat | NOAEL 90.3 mg/kg/day | 2 years |
| Methyl Methacrylate | Ingestion | nervous system | Not classified | Rat | NOAEL 90.3 mg/kg/day | 2 years |
| Methyl Methacrylate | Ingestion | respiratory system | Not classified | Rat | NOAEL 90.3 mg/kg/day | 2 years |
| 1,3-BUTADIENE | Inhalation | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL 200 ppm | 2 years |
| 1,3-BUTADIENE | Inhalation | heart | Not classified | Mouse | NOAEL 625 ppm | 2 years |
| 1,3-BUTADIENE | Inhalation | gastrointestinal tract | Not classified | Mouse | NOAEL 625 ppm | 2 years |
| 1,3-BUTADIENE | Inhalation | immune system | Not classified | Mouse | NOAEL 625 ppm | 2 years |
| 1,3-BUTADIENE | Inhalation | respiratory system | Not classified | Mouse | NOAEL 625 ppm | 2 years |
| 1,3-BUTADIENE | Inhalation | vascular system | Not classified | Mouse | NOAEL 625 ppm | 2 years |
| 1,3-BUTADIENE | Inhalation | endocrine system | Not classified | Mouse | NOAEL 625 | 2 years |

| | | | | | | |
|---------------|------------|-----------------------|----------------|-------|---------------|---------|
| | | | | | ppm | |
| 1,3-BUTADIENE | Inhalation | liver | Not classified | Mouse | NOAEL 625 ppm | 2 years |
| 1,3-BUTADIENE | Inhalation | nervous system | Not classified | Mouse | NOAEL 625 ppm | 2 years |
| 1,3-BUTADIENE | Inhalation | kidney and/or bladder | Not classified | Mouse | NOAEL 625 ppm | 2 years |

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.

SECTION 14: Transport Information

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

SECTION 15: Regulatory information**15.1. US Federal Regulations**

Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:**Physical Hazards**

Not Applicable.

Health Hazards

Respiratory or Skin Sensitization

Serious eye damage or eye irritation
Skin Corrosion or Irritation

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. One or more chemical components of this material have been commercialized under the TSCA polymer exemption at 40CFR723.250. Polymers subject to this exemption are not listed on the TSCA Inventory, but are in compliance with TSCA requirements.

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.

| | | | |
|------------------------|-----------|-------------------------|----------|
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