



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3M™ Scotch-Weld™ Core Splice Adhesive EC-3500 B/A Part A

1.2. Recommended use and restrictions on use

Recommended use

Accelerator for two-part epoxy adhesive/void filler

1.3. Supplier's details

MANUFACTURER: 3M
DIVISION: Automotive and Aerospace Solutions 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

Acute Toxicity (oral): Category 4.
Serious Eye Damage/Irritation: Category 1.
Respiratory Sensitizer: Category 1.
Skin Sensitizer: Category 1.
Carcinogenicity: Category 1B.

2.2. Label elements

Signal word

Danger

Symbols

Corrosion | Exclamation mark | Health Hazard |

Pictograms

**Hazard Statements**

Harmful if swallowed.
Causes serious eye damage.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
May cause cancer.

Precautionary statements**Prevention:**

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing vapors.
Wash exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves, eye protection, and face protection.
In case of inadequate ventilation wear respiratory protection.

Response:

IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Immediately call a POISON CENTER or doctor.
Rinse mouth.
If experiencing respiratory symptoms or if skin irritation or rash occurs: Call a POISON CENTER or doctor.
Take off contaminated clothing and wash it before reuse.

Storage:

Store locked up.

Disposal:

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

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|-------------------------------------|-------------|------------------------|
| GLASS BUBBLES | 65997-17-3 | 20 - 40 |
| HEXAHYDROPHthalic ANHYDRIDE | 85-42-7 | 15 - 40 Trade Secret * |
| MALEIC ANHYDRIDE-MYRCENE ADDUCT | 16726-03-7 | 10 - 30 Trade Secret * |
| MALEIC ANHYDRIDE-ALLOOCIMENE ADDUCT | 29811-04-9 | 5 - 10 Trade Secret * |
| CRYSTALLINE-FREE SILICA GEL | 112926-00-8 | < 1.5 |
| CARBON BLACK | 1333-86-4 | 0.1 - 1 Trade Secret * |
| Acetone | 67-64-1 | <= 0.99 |
| DODECENYLSUCCINIC ANHYDRIDE | 25377-73-5 | < 0.6 |
| ALLOOCIMENE | 673-84-7 | < 0.5 |

| | | |
|------------------|----------|-------|
| MALEIC ANHYDRIDE | 108-31-6 | < 0.4 |
| MYRCENE | 123-35-3 | < 0.2 |

*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 respiratory reaction (difficulty breathing, wheezing, cough, and tightness of chest). 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

Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Aldehydes
Carbon monoxide
Carbon dioxide
Irritant Vapors or Gases

Condition

During Combustion
During Combustion
During Combustion
During Combustion

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

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. 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.

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. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

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 |
|---|-------------|-------------------------|--|--|
| MALEIC ANHYDRIDE | 108-31-6 | ACGIH | TWA(inhalable fraction and vapor):0.01 mg/m3 | A4: Not class. as human carcin,Dermal/Respiratory Sensitizer |
| MALEIC ANHYDRIDE | 108-31-6 | OSHA | TWA:1 mg/m3(0.25 ppm) | |
| Silica: Amorphous, including natural diatomaceous earth | 112926-00-8 | OSHA | TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m3 | |
| 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 | |
| GLASS BUBBLES | 65997-17-3 | Manufacturer determined | TWA(as non-fibrous, respirable)(8 hours):3 mg/m3;TWA(as non-fibrous, | |

| | | | | |
|-----------------------------|---------|-------|--|--------------------------------|
| | | | inhalable fraction)(8 hours):10 mg/m ³ | |
| Acetone | 67-64-1 | ACGIH | TWA:250 ppm;STEL:500 ppm | A4: Not class. as human carcin |
| Acetone | 67-64-1 | OSHA | TWA:2400 mg/m ³ (1000 ppm) | |
| HEXAHYDROPHTHALIC ANHYDRIDE | 85-42-7 | ACGIH | CEIL(inhalable fraction and vapor):0.005 mg/m ³ | Respiratory Sensitizer |

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

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 | Pungent Maleic Anhydride |
| Odor threshold | No Data Available |
| pH | Not Applicable |
| Melting point/Freezing point | No Data Available |
| Boiling point/Initial boiling point/Boiling range | Not Applicable |
| Flash Point | No flash point |
| Evaporation rate | Not Applicable |
| Flammability | Not Applicable |
| Flammable Limits(LEL) | Not Applicable |
| Flammable Limits(UEL) | Not Applicable |
| Vapor Pressure | Not Applicable |
| Relative Vapor Density | No Data Available |
| Density | 0.65 g/ml |
| Relative Density | 0.65 [Ref Std: WATER=1] |
| Water solubility | Negligible |
| 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 | 76,923 mm ² /sec |
| Volatile Organic Compounds | Not Applicable |
| Percent volatile as Text | Nil |
| VOC Less H ₂ O & Exempt Solvents | Not Applicable |
| Molecular weight | No Data Available |

| | |
|--------------------------|----------------|
| Particle Characteristics | 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

None known.

10.5. Incompatible materials

None known.

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.

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

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:

Contact with the skin during product use is not expected to result in significant irritation. 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:

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

May cause additional health effects (see below).

Additional Health Effects:

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

| Ingredient | CAS No. | Class Description | Regulation |
|-------------------|----------------|-------------------------------|---|
| .beta.-Myrcene | 123-35-3 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| 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 | Ingestion | | No data available; calculated ATE >300 - =2,000 mg/kg |
| GLASS BUBBLES | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| GLASS BUBBLES | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| HEXAHYDROPHthalic ANHYDRIDE | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| HEXAHYDROPHthalic ANHYDRIDE | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 1.1 mg/l |
| HEXAHYDROPHthalic ANHYDRIDE | Ingestion | Rat | LD50 2,700 mg/kg |
| MALEIC ANHYDRIDE-MYRCENE ADDUCT | Ingestion | | LD50 estimated to be 300 - 2,000 mg/kg |
| MALEIC ANHYDRIDE-ALLOOCIMENE ADDUCT | Ingestion | | LD50 estimated to be 300 - 2,000 mg/kg |
| Acetone | Dermal | Rabbit | LD50 > 15,688 mg/kg |
| Acetone | Inhalation-Vapor (4 hours) | Rat | LC50 76 mg/l |
| Acetone | Ingestion | Rat | LD50 5,800 mg/kg |
| CRYSTALLINE-FREE SILICA GEL | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| CRYSTALLINE-FREE SILICA GEL | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| CRYSTALLINE-FREE SILICA GEL | Ingestion | Rat | LD50 > 5,110 mg/kg |
| DODECENYLSUCCINIC ANHYDRIDE | Dermal | Rabbit | LD50 > 6,200 mg/kg |
| DODECENYLSUCCINIC ANHYDRIDE | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 1.2 mg/l |
| DODECENYLSUCCINIC ANHYDRIDE | Ingestion | Rat | LD50 2,900 mg/kg |
| CARBON BLACK | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| CARBON BLACK | Ingestion | Rat | LD50 > 8,000 mg/kg |
| MALEIC ANHYDRIDE | Dermal | Rabbit | LD50 2,620 mg/kg |
| MALEIC ANHYDRIDE | Ingestion | Rat | LD50 1,030 mg/kg |
| MYRCENE | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| MYRCENE | Ingestion | Rat | LD50 > 5,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|-----------------------------|------------------------|---------------------------|
| GLASS BUBBLES | Professional judgement | No significant irritation |
| HEXAHYDROPHthalic ANHYDRIDE | Rabbit | Minimal irritation |
| Acetone | Mouse | Minimal irritation |
| CRYSTALLINE-FREE SILICA GEL | Rabbit | No significant irritation |
| DODECENYLSUCCINIC ANHYDRIDE | Rabbit | Mild irritant |
| CARBON BLACK | Rabbit | No significant irritation |
| MALEIC ANHYDRIDE | Human and animal | Corrosive |
| MYRCENE | In vitro data | Irritant |

Serious Eye Damage/Irritation

| Name | Species | Value |
|-----------------------------|------------------------|---------------------------|
| GLASS BUBBLES | Professional judgement | No significant irritation |
| HEXAHYDROPHthalic ANHYDRIDE | Rabbit | Corrosive |
| Acetone | Rabbit | Severe irritant |
| CRYSTALLINE-FREE SILICA GEL | Rabbit | No significant irritation |
| DODECENYLSUCCINIC ANHYDRIDE | Rabbit | Severe irritant |

| | | |
|------------------|--------|---------------------------|
| CARBON BLACK | Rabbit | No significant irritation |
| MALEIC ANHYDRIDE | Rabbit | Corrosive |
| MYRCENE | Rabbit | Severe irritant |

Skin Sensitization

| Name | Species | Value |
|-----------------------------|-------------------------|----------------|
| HEXAHYDROPHthalic ANHYDRIDE | Guinea pig | Sensitizing |
| CRYSTALLINE-FREE SILICA GEL | Human and animal | Not classified |
| DODECENYLSUCCINIC ANHYDRIDE | similar compounds | Sensitizing |
| MALEIC ANHYDRIDE | Multiple animal species | Sensitizing |
| MYRCENE | Mouse | Not classified |

Respiratory Sensitization

| Name | Species | Value |
|-----------------------------|-------------------|-------------|
| HEXAHYDROPHthalic ANHYDRIDE | Human | Sensitizing |
| DODECENYLSUCCINIC ANHYDRIDE | similar compounds | Sensitizing |
| MALEIC ANHYDRIDE | Human | Sensitizing |

Germ Cell Mutagenicity

| Name | Route | Value |
|-----------------------------|----------|--|
| GLASS BUBBLES | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| HEXAHYDROPHthalic ANHYDRIDE | In Vitro | Not mutagenic |
| Acetone | In vivo | Not mutagenic |
| Acetone | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| CRYSTALLINE-FREE SILICA GEL | In Vitro | Not mutagenic |
| DODECENYLSUCCINIC ANHYDRIDE | In Vitro | Not mutagenic |
| CARBON BLACK | In Vitro | Not mutagenic |
| CARBON BLACK | In vivo | Some positive data exist, but the data are not sufficient for classification |
| MALEIC ANHYDRIDE | In vivo | Not mutagenic |
| MALEIC ANHYDRIDE | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| MYRCENE | In Vitro | Not mutagenic |
| MYRCENE | In vivo | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|-----------------------------|---------------|-------------------------|--|
| GLASS BUBBLES | Inhalation | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Acetone | Not Specified | Multiple animal species | Not carcinogenic |
| CRYSTALLINE-FREE SILICA GEL | 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 |
| MYRCENE | Ingestion | Multiple animal | Carcinogenic |

species

Reproductive Toxicity**Reproductive and/or Developmental Effects**

| Name | Route | Value | Species | Test Result | Exposure Duration |
|-----------------------------|------------|--|---------|-----------------------|--------------------------|
| Acetone | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,700 mg/kg/day | 13 weeks |
| Acetone | Inhalation | Not classified for development | Rat | NOAEL 5.2 mg/l | during organogenesis |
| CRYSTALLINE-FREE SILICA GEL | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| CRYSTALLINE-FREE SILICA GEL | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| CRYSTALLINE-FREE SILICA GEL | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |
| MALEIC ANHYDRIDE | Ingestion | Not classified for female reproduction | Rat | NOAEL 55 mg/kg/day | 2 generation |
| MALEIC ANHYDRIDE | Ingestion | Not classified for male reproduction | Rat | NOAEL 55 mg/kg/day | 2 generation |
| MALEIC ANHYDRIDE | Ingestion | Not classified for development | Rat | NOAEL 140 mg/kg/day | during organogenesis |
| MYRCENE | Ingestion | Not classified for male reproduction | Rat | NOAEL 500 mg/kg/day | 90 days |
| MYRCENE | Ingestion | Not classified for female reproduction | Rat | NOAEL 300 mg/kg/day | premating into lactation |
| MYRCENE | Ingestion | Not classified for development | Rat | NOAEL 300 mg/kg/day | premating into lactation |

Target Organ(s)**Specific Target Organ Toxicity - single exposure**

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|-----------------------------|------------|-----------------------------------|--|------------------------|---------------------|------------------------|
| HEXAHYDROPHTHALIC ANHYDRIDE | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | occupational exposure |
| Acetone | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Acetone | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Acetone | Inhalation | immune system | Not classified | Human | NOAEL 1.19 mg/l | 6 hours |
| Acetone | Inhalation | liver | Not classified | Guinea pig | NOAEL Not available | |
| Acetone | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |
| DODECENYLSUCCINIC ANHYDRIDE | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| MALEIC ANHYDRIDE | Inhalation | respiratory irritation | May cause respiratory irritation | Human | NOAEL Not available | |
| MYRCENE | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL not available | |

Specific Target Organ Toxicity - repeated exposure

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

| | | | | | | |
|-----------------------------|------------|--|--|------------|------------------------|-----------------------|
| GLASS BUBBLES | Inhalation | respiratory system | Not classified | Human | NOAEL not available | occupational exposure |
| Acetone | Dermal | eyes | Not classified | Guinea pig | NOAEL Not available | 3 weeks |
| Acetone | Inhalation | hematopoietic system | Not classified | Human | NOAEL 3 mg/l | 6 weeks |
| Acetone | Inhalation | immune system | Not classified | Human | NOAEL 1.19 mg/l | 6 days |
| Acetone | Inhalation | kidney and/or bladder | Not classified | Guinea pig | NOAEL 119 mg/l | not available |
| Acetone | Inhalation | heart liver | Not classified | Rat | NOAEL 45 mg/l | 8 weeks |
| Acetone | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 900 mg/kg/day | 13 weeks |
| Acetone | Ingestion | heart | Not classified | Rat | NOAEL 2,500 mg/kg/day | 13 weeks |
| Acetone | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 200 mg/kg/day | 13 weeks |
| Acetone | Ingestion | liver | Not classified | Mouse | NOAEL 3,896 mg/kg/day | 14 days |
| Acetone | Ingestion | eyes | Not classified | Rat | NOAEL 3,400 mg/kg/day | 13 weeks |
| Acetone | Ingestion | respiratory system | Not classified | Rat | NOAEL 2,500 mg/kg/day | 13 weeks |
| Acetone | Ingestion | muscles | Not classified | Rat | NOAEL 2,500 mg/kg | 13 weeks |
| Acetone | Ingestion | skin bone, teeth, nails, and/or hair | Not classified | Mouse | NOAEL 11,298 mg/kg/day | 13 weeks |
| CRYSTALLINE-FREE SILICA GEL | Inhalation | respiratory system silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| DODECENYLSUCCINIC ANHYDRIDE | Ingestion | heart endocrine system hematopoietic system liver immune system nervous system kidney and/or bladder | Not classified | Rat | NOAEL 300 mg/kg/day | 14 days |
| CARBON BLACK | Inhalation | pneumoconiosis | Not classified | Human | NOAEL Not available | occupational exposure |
| MALEIC ANHYDRIDE | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.0011 mg/l | 6 months |
| MALEIC ANHYDRIDE | Inhalation | endocrine system hematopoietic system nervous system kidney and/or bladder heart liver eyes | Not classified | Rat | NOAEL 0.0098 mg/l | 6 months |
| MALEIC ANHYDRIDE | Ingestion | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 55 mg/kg/day | 80 days |
| MALEIC ANHYDRIDE | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 250 mg/kg/day | 183 days |
| MALEIC ANHYDRIDE | Ingestion | heart nervous system | Not classified | Rat | NOAEL 600 mg/kg/day | 183 days |
| MALEIC ANHYDRIDE | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 150 mg/kg/day | 80 days |
| MALEIC ANHYDRIDE | Ingestion | hematopoietic system | Not classified | Dog | NOAEL 60 mg/kg/day | 90 days |
| MALEIC ANHYDRIDE | Ingestion | skin endocrine system immune | Not classified | Rat | NOAEL 150 mg/kg/day | 80 days |

| | | | | | | |
|---------|-----------|---|--|-----|-----------------------|----------|
| | | system eyes respiratory system | | | | |
| MYRCENE | Ingestion | immune system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 500 mg/kg/day | 14 weeks |
| MYRCENE | Ingestion | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 250 mg/kg/day | 14 weeks |
| MYRCENE | Ingestion | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1,000 mg/kg/day | 14 weeks |
| MYRCENE | Ingestion | gastrointestinal tract liver respiratory system heart skin endocrine system bone, teeth, nails, and/or hair nervous system eyes | Not classified | Rat | NOAEL 2,000 mg/kg/day | 14 weeks |

Aspiration Hazard

| Name | Value |
|---------|-------------------|
| MYRCENE | Aspiration hazard |

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. 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.

EPCRA 311/312 Hazard Classifications:

| |
|-------------------------|
| Physical Hazards |
| Not Applicable. |

| |
|--------------------------------------|
| Health Hazards |
| Acute toxicity |
| Carcinogenicity |
| Respiratory or Skin Sensitization |
| Serious eye damage or eye 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. All required components of this product are listed on the active portion of the TSCA Inventory.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

| |
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| This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200. |
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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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