



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3M™ Aerospace Sealant AC-350 B-1/2 PMF

Product Identification Numbers

70-0052-0231-5, 70-0052-0232-3, 70-0052-0234-9, 70-0052-0235-6, 70-0052-0237-2, 70-0052-0239-8, 70-0052-0241-4, 70-0052-0245-5, 70-0052-0246-3, 70-0052-0578-9, 70-0052-0599-5, 70-0052-0613-4, 70-0052-0614-2, 70-0052-0618-3, 70-0052-0884-1, 70-0052-0885-8, 70-0052-0888-2, 70-0052-0901-3, 70-0052-1959-0, 70-0052-1960-8, 70-0052-1964-0, 7010292630, 7010332353, 7010370383, 7100065784, 7010311259, 7010371839, 7000123269, 7000123270, 7000123274, 7010370449, 7010370448

1.2. Recommended use and restrictions on use

Recommended use

For industrial or professional use only., Sealant

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

Skin Sensitizer: Category 1.

Carcinogenicity: Category 2.

Specific Target Organ Toxicity (repeated exposure): Category 1.

2.2. Label elements

Signal word

Danger

Symbols

Exclamation mark | Health Hazard |

Pictograms**Hazard Statements**

May cause an allergic skin reaction.

Suspected of causing cancer.

Causes damage to organs through prolonged or repeated exposure:

nervous system |

respiratory system |

Precautionary Statements**Prevention:**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear protective gloves.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Response:

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Storage:

Store locked up.

Disposal:

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

12% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|-----------------------------|------------|--------------------------|
| POLYSULFIDE RUBBER | 68611-50-7 | 55 - 65 |
| CALCIUM CARBONATE | 471-34-1 | 10 - 20 |
| OXIDIZED POLYETHYLENE | 68441-17-8 | 10 - 20 |
| AMORPHOUS SILICA | 67762-90-7 | 0.5 - 5 |
| HYDROGENATED TERPHENYL | 61788-32-7 | 1 - 5 |
| MANGANESE DIOXIDE | 1313-13-9 | 1 - 5 Trade Secret * |
| TITANIUM DIOXIDE | 13463-67-7 | 0.1 - 1 Trade Secret * |
| EPOXY RESIN | 25085-99-8 | 0.1 - 0.5 Trade Secret * |
| PHENOL-FORMALDEHYDE POLYMER | 9003-35-4 | 0.1 - 0.5 Trade Secret * |
| QUARTZ SILICA | 14808-60-7 | 0.01 - 0.1 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:

If exposed, flush eyes with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms develop, 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

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Formaldehyde
Carbon monoxide
Carbon dioxide
Oxides of Nitrogen
Oxides of Sulfur

Condition

During Combustion
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

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage including any incompatibilities

Store away from acids. Store away from strong bases.

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 |
|--------------------------------|------------|--------|--|--------------------------------|
| MANGANESE COMPOUNDS | 1313-13-9 | OSHA | CEIL(as Mn):5 mg/m ³ | |
| MANGANESE, INORGANIC COMPOUNDS | 1313-13-9 | ACGIH | TWA(as Mn, respirable fraction):0.02 mg/m ³ ;TWA(as Mn, inhalable fraction):0.1 mg/m ³ | A4: Not class. as human carcin |
| TITANIUM DIOXIDE | 13463-67-7 | ACGIH | TWA(Respirable nanoscale particles):0.2 mg/m ³ ;TWA(Respirable finescale particles):2.5 mg/m ³ | A3: Confirmed animal carcin. |
| TITANIUM DIOXIDE | 13463-67-7 | OSHA | TWA(as total dust):15 mg/m ³ | |
| QUARTZ SILICA | 14808-60-7 | ACGIH | TWA(respirable fraction):0.025 mg/m ³ | A2: Suspected human carcin. |
| QUARTZ SILICA | 14808-60-7 | OSHA | TWA Table Z-1(respirable):0.05 mg/m ³ ;TWA Table Z-3(respirable):0.1 mg/m ³ ;TWA concentration(respirable):0.1 mg/m ³ (2.4 millions of particles/cu. ft.) | |
| Limestone | 471-34-1 | OSHA | TWA(as total dust):15 mg/m ³ ;TWA(respirable fraction):5 mg/m ³ | |
| HYDROGENATED TERPHENYL | 61788-32-7 | ACGIH | TWA:0.5 ppm | |

| | | | |
|-------------------|------------|------|--|
| SILICA, AMORPHOUS | 67762-90-7 | OSHA | TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m3 |
|-------------------|------------|------|--|

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:

Safety Glasses with side shields

Skin/hand protection

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

Gloves made from the following material(s) are recommended: Polymer laminate

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

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors 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

Appearance

Physical state

Liquid

Color

Dark Gray

Odor

Sulfuric

Odor threshold

No Data Available

pH

Not Applicable

Melting point

Not Applicable

| | |
|--|--|
| Boiling Point | <i>No Data Available</i> |
| Flash Point | ≥ 200 °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 | <i>No Data Available</i> |
| Vapor Density | <i>No Data Available</i> |
| Density | 1.35 g/ml |
| Specific Gravity | 1.35 [<i>Ref Std: WATER=1</i>] |
| 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 | <i>No Data Available</i> |
| Volatile Organic Compounds | 2.8 g/l [<i>Test Method: calculated SCAQMD rule 443.1</i>] |
| VOC Less H₂O & Exempt Solvents | 2.8 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

None known.

10.5. Incompatible materials

Reducing agents
Strong bases
Strong acids

10.6. Hazardous decomposition products

Substance

None known.

Condition

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.

May cause additional health effects (see below).

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:

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

Ingestion:

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

May cause additional health effects (see below).

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:

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

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

| Ingredient | CAS No. | Class Description | Regulation |
|---|----------------|--------------------------------|---|
| SILICA, CRYSTALLINE (RESPIRABLE SIZE) | 14808-60-7 | Known human carcinogen | National Toxicology Program Carcinogens |
| SILICA DUST, CRYSTALLINE, IN THE FORM OF QUARTZ OR CRISTOBALITE | 14808-60-7 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| TITANIUM DIOXIDE | 13463-67-7 | 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 | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| POLYSULFIDE RUBBER | Dermal | Rat | LD50 > 7,800 mg/kg |
| POLYSULFIDE RUBBER | Ingestion | Rat | LD50 > 5,000 mg/kg |
| CALCIUM CARBONATE | Dermal | Rat | LD50 > 2,000 mg/kg |
| CALCIUM CARBONATE | Inhalation-Dust/Mist (4 hours) | Rat | LC50 3 mg/l |
| CALCIUM CARBONATE | Ingestion | Rat | LD50 6,450 mg/kg |
| OXIDIZED POLYETHYLENE | Ingestion | Rat | LD50 > 2,500 mg/kg |
| MANGANESE DIOXIDE | Dermal | Rat | LD50 2,000 mg/kg |
| MANGANESE DIOXIDE | Inhalation- | Rat | LC50 > 1.5 mg/l |

| | | | |
|-----------------------------|---------------------------------------|--------|------------------------------------|
| | Dust/Mist (4 hours) | | |
| MANGANESE DIOXIDE | Ingestion | Rat | LD50 > 2,197 mg/kg |
| HYDROGENATED TERPHENYL | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| HYDROGENATED TERPHENYL | Inhalation- Dust/Mist (4 hours) | Rat | LC50 > 4.7 mg/l |
| HYDROGENATED TERPHENYL | Ingestion | Rat | LD50 > 10,000 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 |
| TITANIUM DIOXIDE | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| TITANIUM DIOXIDE | Inhalation- Dust/Mist (4 hours) | Rat | LC50 > 6.82 mg/l |
| TITANIUM DIOXIDE | Ingestion | Rat | LD50 > 10,000 mg/kg |
| EPOXY RESIN | Dermal | Rat | LD50 > 1,600 mg/kg |
| EPOXY RESIN | Ingestion | Rat | LD50 > 1,000 mg/kg |
| PHENOL-FORMALDEHYDE POLYMER | Dermal | Rat | LD50 > 2,000 mg/kg |
| PHENOL-FORMALDEHYDE POLYMER | Ingestion | Rat | LD50 > 2,900 mg/kg |
| QUARTZ SILICA | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| QUARTZ SILICA | Ingestion | | LD50 estimated to be > 5,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|-----------------------------|------------------------|---------------------------|
| POLYSULFIDE RUBBER | Rabbit | No significant irritation |
| CALCIUM CARBONATE | Rabbit | No significant irritation |
| OXIDIZED POLYETHYLENE | Professional judgement | No significant irritation |
| MANGANESE DIOXIDE | Rabbit | No significant irritation |
| HYDROGENATED TERPHENYL | Rabbit | No significant irritation |
| AMORPHOUS SILICA | Rabbit | No significant irritation |
| TITANIUM DIOXIDE | Rabbit | No significant irritation |
| EPOXY RESIN | Rabbit | Mild irritant |
| PHENOL-FORMALDEHYDE POLYMER | Human and animal | Mild irritant |
| QUARTZ SILICA | Professional judgement | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|-----------------------------|------------------------|---------------------------|
| POLYSULFIDE RUBBER | Rabbit | No significant irritation |
| CALCIUM CARBONATE | Rabbit | No significant irritation |
| OXIDIZED POLYETHYLENE | Professional judgement | No significant irritation |
| MANGANESE DIOXIDE | Rabbit | Mild irritant |
| HYDROGENATED TERPHENYL | Rabbit | No significant irritation |
| AMORPHOUS SILICA | Rabbit | No significant irritation |
| TITANIUM DIOXIDE | Rabbit | No significant irritation |
| EPOXY RESIN | Rabbit | Moderate irritant |
| PHENOL-FORMALDEHYDE POLYMER | Human and animal | Moderate irritant |

animal

Skin Sensitization

| Name | Species | Value |
|-----------------------------|------------------|----------------|
| POLYSULFIDE RUBBER | | Not classified |
| MANGANESE DIOXIDE | Mouse | Not classified |
| HYDROGENATED TERPHENYL | Human | Not classified |
| AMORPHOUS SILICA | Human and animal | Not classified |
| TITANIUM DIOXIDE | Human and animal | Not classified |
| EPOXY RESIN | Human and animal | Sensitizing |
| PHENOL-FORMALDEHYDE POLYMER | Human and animal | Sensitizing |

Respiratory Sensitization

| Name | Species | Value |
|-----------------------------|---------|----------------|
| EPOXY RESIN | Human | Not classified |
| PHENOL-FORMALDEHYDE POLYMER | Human | Not classified |

Germ Cell Mutagenicity

| Name | Route | Value |
|------------------------|----------|--|
| MANGANESE DIOXIDE | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| MANGANESE DIOXIDE | In vivo | Some positive data exist, but the data are not sufficient for classification |
| HYDROGENATED TERPHENYL | In Vitro | Not mutagenic |
| HYDROGENATED TERPHENYL | In vivo | Not mutagenic |
| AMORPHOUS SILICA | In Vitro | Not mutagenic |
| TITANIUM DIOXIDE | In Vitro | Not mutagenic |
| TITANIUM DIOXIDE | In vivo | Not mutagenic |
| EPOXY RESIN | In vivo | Not mutagenic |
| EPOXY RESIN | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| QUARTZ SILICA | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| QUARTZ SILICA | In vivo | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|------------------|---------------|-------------------------|--|
| AMORPHOUS SILICA | Not Specified | Mouse | Some positive data exist, but the data are not sufficient for classification |
| TITANIUM DIOXIDE | Ingestion | Multiple animal species | Not carcinogenic |
| TITANIUM DIOXIDE | Inhalation | Rat | Carcinogenic |
| EPOXY RESIN | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| QUARTZ SILICA | Inhalation | Human and animal | Carcinogenic |

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

| Name | Route | Value | Species | Test Result | Exposure Duration |
|------------------------|------------|--|---------|----------------------------|--------------------------------|
| CALCIUM CARBONATE | Ingestion | Not classified for development | Rat | NOAEL 625 mg/kg/day | prematuring & during gestation |
| MANGANESE DIOXIDE | Inhalation | Not classified for female reproduction | Rat | NOAEL 20 mg/m ³ | 2 generation |
| MANGANESE DIOXIDE | Inhalation | Not classified for male reproduction | Rabbit | LOAEL 250 mg/kg | 1 days |
| MANGANESE DIOXIDE | Ingestion | Not classified for development | Rat | LOAEL 354 mg/kg/day | prematuring into lactation |
| MANGANESE DIOXIDE | Inhalation | Not classified for development | Rat | LOAEL 61 mg/m ³ | gestation into lactation |
| HYDROGENATED TERPHENYL | Ingestion | Not classified for female reproduction | Rat | NOAEL 81 mg/kg/day | 2 generation |
| HYDROGENATED TERPHENYL | Ingestion | Not classified for male reproduction | Rat | NOAEL 62 mg/kg/day | 2 generation |
| HYDROGENATED TERPHENYL | Ingestion | Not classified for development | Rat | NOAEL 500 mg/kg/day | during organogenesis |
| 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 |
| EPOXY RESIN | Ingestion | Not classified for female reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| EPOXY RESIN | Ingestion | Not classified for male reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| EPOXY RESIN | Dermal | Not classified for development | Rabbit | NOAEL 300 mg/kg/day | during organogenesis |
| EPOXY RESIN | Ingestion | Not classified for development | Rat | NOAEL 750 mg/kg/day | 2 generation |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|-----------------------------|------------|------------------------|--|------------------|---------------------|-------------------|
| CALCIUM CARBONATE | Inhalation | respiratory system | Not classified | Rat | NOAEL 0.812 mg/l | 90 minutes |
| PHENOL-FORMALDEHYDE POLYMER | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human and animal | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|------------------------|------------|-------------------------------------|--|---------|-----------------------------|-----------------------|
| CALCIUM CARBONATE | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| MANGANESE DIOXIDE | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Monkey | LOAEL 1.1 mg/m ³ | 10 months |
| MANGANESE DIOXIDE | Inhalation | nervous system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| HYDROGENATED TERPHENYL | Dermal | skin | Not classified | Rabbit | NOAEL 500 mg/kg/day | 3 weeks |
| HYDROGENATED TERPHENYL | Dermal | hematopoietic system | Not classified | Rabbit | NOAEL 2,000 mg/kg/day | 3 weeks |
| HYDROGENATED TERPHENYL | Inhalation | liver hematopoietic system eyes | Not classified | Rat | NOAEL 0.5 mg/l | 13 weeks |
| HYDROGENATED | Ingestion | hematopoietic | Not classified | Rat | NOAEL 120 | 14 weeks |

| | | | | | | |
|-----------------------------|------------|--|--|-------|-----------------------|-----------------------|
| TERPHENYL | | system kidney and/or bladder liver eyes respiratory system | | | mg/kg/day | |
| AMORPHOUS SILICA | Inhalation | respiratory system silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| TITANIUM DIOXIDE | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 0.01 mg/l | 2 years |
| TITANIUM DIOXIDE | Inhalation | pulmonary fibrosis | Not classified | Human | NOAEL Not available | occupational exposure |
| EPOXY RESIN | Dermal | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 2 years |
| EPOXY RESIN | Dermal | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| EPOXY RESIN | Ingestion | auditory system heart endocrine system hematopoietic system liver eyes kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| PHENOL-FORMALDEHYDE POLYMER | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | occupational exposure |
| QUARTZ SILICA | Inhalation | silicosis | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |

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

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

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

| <u>Ingredient</u> | <u>C.A.S. No</u> | <u>% by Wt</u> |
|---|------------------|--------------------|
| MANGANESE DIOXIDE (MANGANESE COMPOUNDS) | 1313-13-9 | Trade Secret 1 - 5 |

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

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

SECTION 16: Other information**NFPA Hazard Classification**

Health: 2 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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