



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3M™ Scotch-Weld™ Structural Adhesive Film AF-325 White

Product Identification Numbers

87-2500-0364-4, 87-2500-0366-9
7010399423, 7010399424

1.2. Recommended use and restrictions on use

Recommended use

Surfacing Film, Industrial use

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.

2.2. Label elements

Signal word

Warning

Symbols

Exclamation mark |

Pictograms

**Hazard Statements**

May cause an allergic skin reaction.

Precautionary statements**Prevention:**

Avoid breathing vapors.

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

Wear protective gloves.

Response:

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

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.

2% of the mixture consists of ingredients of unknown acute oral toxicity.

2% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---|-------------------|--------------------------|
| PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER | 28064-14-4 | 30 - 60 Trade Secret * |
| GLASS BUBBLES | 65997-17-3 | 10 - 30 |
| 4,4'-isopropylidenediphenol-epichlorohydrin polymer | 25068-38-6 | 5 - 10 Trade Secret * |
| DICYANDIAMIDE | 461-58-5 | 5 - 10 |
| EPOXY POLYMER | 29690-82-2 | 3 - 10 Trade Secret * |
| POLY(ETHYLENE TEREPHTHALATE) | 25038-59-9 | <= 10 |
| PAPER | None | <= 10 |
| TALC | 14807-96-6 | 3 - 7 Trade Secret * |
| 1,1'-4(METHYL-M-PHENYLENE)BIS(3,3'-DIMETHYLUREA) | 17526-94-2 | 1 - 5 |
| NON-VOLATILE AMIDE | Trade Secret* | 1 - 5 |
| DIMETHYL TEREPHTHALATE-ETHYLENE GLYCOL-ISOPHTHALIC ACID POLYMER | 26006-30-4 | <= 1.5 |
| ORGANOSILANE | 2530-83-8 | 0.5 - 1.5 Trade Secret * |

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

SECTION 4: First aid measures**4.1. Description of first aid measures**

Inhalation:

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

Skin Contact:

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

Eye Contact:

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

If Swallowed:

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

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

Allergic skin reaction (redness, swelling, blistering, and itching).

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

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products**Substance**

Aldehydes
Carbon monoxide
Carbon dioxide
Hydrogen Chloride
Hydrogen Cyanide
Irritant Vapors or Gases
Ammonia
Oxides of Nitrogen

Condition

During Combustion
During Combustion
During Combustion
During Combustion
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. 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.

6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. 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.

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 |
|---|------------|-------------------------|--|--------------------------------|
| Silicates (less than 1% crystalline silica) talc (containing asbestos) | 14807-96-6 | OSHA | TWA - Use asbestos limits: | |
| TALC | 14807-96-6 | ACGIH | TWA(respirable fraction):2 mg/m ³ | A4: Not class. as human carcin |
| TALC | 14807-96-6 | OSHA | TWA concentration(respirable):0.1 mg/m ³ (2.4 millions of particles/cu. ft.);TWA:20 millions of particles/cu. ft. | |
| GLASS BUBBLES | 65997-17-3 | Manufacturer determined | TWA(as non-fibrous, respirable)(8 hours):3 mg/m ³ ;TWA(as non-fibrous, inhalable fraction)(8 hours):10 mg/m ³ | |
| Inert or Nuisance Dust, Respirable fraction | 65997-17-3 | OSHA | TWA(as total dust):50 millions of particles/cu. ft.(15 mg/m ³);TWA(respirable fraction):15 millions of particles/cu. ft.(5 mg/m ³) | |
| Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles | 65997-17-3 | ACGIH | TWA(inhalable particulates):10 mg/m ³ | |
| Particles (insoluble or poorly soluble) not otherwise specified, respirable particles | 65997-17-3 | ACGIH | TWA(respirable particles):3 mg/m ³ | |

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

None required.

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 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 | Solid film adhesive |
| Specific Physical Form: | Film |
| Color | White |
| Odor | Odorless |
| 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) | <i>Not Applicable</i> |
| Relative Vapor Density | Nil |
| Density | 1.2 g/cm3 [@ 20 °C] |
| Relative Density | 1.2 [Ref Std: WATER=1] |
| Water solubility | 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> |
| Kinematic Viscosity | <i>Not Applicable</i> |
| Volatile Organic Compounds | <i>Not Applicable</i> |
| Percent volatile as Text | Nil |
| VOC Less H2O & Exempt Solvents | <i>Not Applicable</i> |

| | |
|--------------------------|-----------------------|
| Particle Characteristics | <i>Not Applicable</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 may occur.

10.4. Conditions to avoid

Avoid curing large quantities of material to prevent a premature reaction (exotherm) with production of intense heat and smoke.

10.5. Incompatible materials

Not determined

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.

Skin Contact:

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

Eye Contact:

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

Ingestion:

Physical Blockage: Signs/symptoms may include cramping, abdominal pain, and constipation.

Carcinogenicity:

| <u>Ingredient</u> | <u>CAS No.</u> | <u>Class Description</u> | <u>Regulation</u> |
|--------------------------|-----------------------|---------------------------------|---|
| Talc | 14807-96-6 | Grp. 2A: Probable 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

| <u>Name</u> | <u>Route</u> | <u>Species</u> | <u>Value</u> |
|---|--------------------------------|-----------------------|--|
| Overall product | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER | Dermal | Rabbit | LD50 > 6,000 mg/kg |
| PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 1.7 mg/l |
| PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER | Ingestion | Rat | LD50 > 4,000 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 |
| POLY(ETHYLENE TEREPHTHALATE) | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| POLY(ETHYLENE TEREPHTHALATE) | Ingestion | Rat | LD50 > 5,000 mg/kg |
| 4,4'-isopropylidenediphenol-epichlorohydrin polymer | Dermal | Rat | LD50 > 1,600 mg/kg |
| 4,4'-isopropylidenediphenol-epichlorohydrin polymer | Ingestion | Rat | LD50 > 1,000 mg/kg |
| EPOXY POLYMER | Ingestion | Not available | LD50 > 2,000 mg/kg |
| EPOXY POLYMER | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| DICYANDIAMIDE | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| DICYANDIAMIDE | Ingestion | Rat | LD50 > 30,000 mg/kg |
| TALC | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| TALC | Ingestion | | LD50 estimated to be > 5,000 mg/kg |
| NON-VOLATILE AMIDE | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| 1,1'-4(METHYL-M-PHENYLENE)BIS(3,3'-DIMETHYLUREA) | Dermal | Rat | LD50 > 2,000 mg/kg |
| 1,1'-4(METHYL-M-PHENYLENE)BIS(3,3'-DIMETHYLUREA) | Ingestion | Rat | LD50 > 2,000 mg/kg |
| NON-VOLATILE AMIDE | Ingestion | Rat | LD50 > 5,000 mg/kg |
| ORGANOSILANE | Dermal | Rabbit | LD50 4,000 mg/kg |
| ORGANOSILANE | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.3 mg/l |
| ORGANOSILANE | Ingestion | Rat | LD50 7,010 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| <u>Name</u> | <u>Species</u> | <u>Value</u> |
|--------------------|-----------------------|---------------------|
|--------------------|-----------------------|---------------------|

| | | |
|---|-----------------------|---------------------------|
| | | |
| PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER | Rabbit | Minimal irritation |
| GLASS BUBBLES | Professional judgment | No significant irritation |
| POLY(ETHYLENE TEREPHTHALATE) | In vitro data | No significant irritation |
| 4,4'-isopropylidenediphenol-epichlorohydrin polymer | Rabbit | Mild irritant |
| EPOXY POLYMER | Professional judgment | Mild irritant |
| DICYANDIAMIDE | Human and animal | Minimal irritation |
| TALC | Rabbit | No significant irritation |
| 1,1'-4(METHYL-M-PHENYLENE)BIS(3,3'-DIMETHYLUREA) | Rabbit | No significant irritation |
| NON-VOLATILE AMIDE | Rabbit | No significant irritation |
| ORGANOSILANE | Rabbit | Mild irritant |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---|-----------------------|---------------------------|
| PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER | Rabbit | Mild irritant |
| GLASS BUBBLES | Professional judgment | No significant irritation |
| POLY(ETHYLENE TEREPHTHALATE) | Human | No significant irritation |
| 4,4'-isopropylidenediphenol-epichlorohydrin polymer | Rabbit | Moderate irritant |
| EPOXY POLYMER | Professional judgment | Moderate irritant |
| DICYANDIAMIDE | Professional judgment | Mild irritant |
| TALC | Rabbit | No significant irritation |
| 1,1'-4(METHYL-M-PHENYLENE)BIS(3,3'-DIMETHYLUREA) | Rabbit | No significant irritation |
| NON-VOLATILE AMIDE | Rabbit | Mild irritant |
| ORGANOSILANE | Rabbit | Corrosive |

Skin Sensitization

| Name | Species | Value |
|---|-------------------|----------------|
| PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER | Human and animal | Sensitizing |
| POLY(ETHYLENE TEREPHTHALATE) | Human | Not classified |
| 4,4'-isopropylidenediphenol-epichlorohydrin polymer | Human and animal | Sensitizing |
| EPOXY POLYMER | similar compounds | Not classified |
| DICYANDIAMIDE | Guinea pig | Not classified |
| NON-VOLATILE AMIDE | Mouse | Not classified |
| ORGANOSILANE | Guinea pig | Not classified |

Respiratory Sensitization

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

| | | |
|---|-------|----------------|
| | | |
| 4,4'-isopropylidenediphenol-epichlorohydrin polymer | Human | Not classified |
| TALC | Human | Not classified |

Germ Cell Mutagenicity

| Name | Route | Value |
|---|----------|--|
| PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| GLASS BUBBLES | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| POLY(ETHYLENE TEREPHTHALATE) | In Vitro | Not mutagenic |
| 4,4'-isopropylidenediphenol-epichlorohydrin polymer | In vivo | Not mutagenic |
| 4,4'-isopropylidenediphenol-epichlorohydrin polymer | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| EPOXY POLYMER | In Vitro | Not mutagenic |
| DICYANDIAMIDE | In Vitro | Not mutagenic |
| TALC | In Vitro | Not mutagenic |
| TALC | In vivo | Not mutagenic |
| NON-VOLATILE AMIDE | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| ORGANOSILANE | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| ORGANOSILANE | In vivo | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|---|------------|-------------------------|--|
| GLASS BUBBLES | Inhalation | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| 4,4'-isopropylidenediphenol-epichlorohydrin polymer | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| DICYANDIAMIDE | Ingestion | Rat | Not carcinogenic |
| TALC | Dermal | Human | Some positive data exist, but the data are not sufficient for classification |
| TALC | Inhalation | Rat | Carcinogenic |
| ORGANOSILANE | Dermal | Mouse | Not carcinogenic |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|---|-----------|--|---------|-----------------------|--------------------------------|
| 4,4'-isopropylidenediphenol-epichlorohydrin polymer | Ingestion | Not classified for female reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| 4,4'-isopropylidenediphenol-epichlorohydrin polymer | Ingestion | Not classified for male reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| 4,4'-isopropylidenediphenol-epichlorohydrin polymer | Dermal | Not classified for development | Rabbit | NOAEL 300 mg/kg/day | during organogenesis |
| 4,4'-isopropylidenediphenol-epichlorohydrin polymer | Ingestion | Not classified for development | Rat | NOAEL 750 mg/kg/day | 2 generation |
| DICYANDIAMIDE | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| DICYANDIAMIDE | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 44 days |
| DICYANDIAMIDE | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| TALC | Ingestion | Not classified for development | Rat | NOAEL 1,600 mg/kg | during organogenesis |

| | | | | | |
|--------------|-----------|--|-----|-----------------------|----------------------|
| ORGANOSILANE | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | 1 generation |
| ORGANOSILANE | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 1 generation |
| ORGANOSILANE | Ingestion | Not classified for development | Rat | NOAEL 3,000 mg/kg/day | during organogenesis |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---------------|------------|------------------------|--|------------------------|---------------------|-------------------|
| EPOXY POLYMER | 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 |
| POLY(ETHYLENE TEREPHTHALATE) | Ingestion | heart skin endocrine system bone, teeth, nails, and/or hair hematopoietic system liver immune system muscles nervous system eyes kidney and/or bladder respiratory system | Not classified | Rat | NOAEL Not available | 13 weeks |
| 4,4'-isopropylidenediphenol-epichlorohydrin polymer | Dermal | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 2 years |
| 4,4'-isopropylidenediphenol-epichlorohydrin polymer | Dermal | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| 4,4'-isopropylidenediphenol-epichlorohydrin polymer | 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 |
| DICYANDIAMIDE | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 6,822 mg/kg/day | 13 weeks |
| TALC | Inhalation | pneumoconiosis | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| TALC | Inhalation | pulmonary fibrosis respiratory system | Not classified | Rat | NOAEL 18 mg/m3 | 113 weeks |
| ORGANOSILANE | Ingestion | heart endocrine system bone, teeth, nails, and/or hair hematopoietic system liver immune system nervous system kidney and/or bladder respiratory system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |

Aspiration Hazard

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

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

SECTION 12: Ecological information

Ecotoxicological information

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

Chemical fate information

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

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Dispose of waste product 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

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing 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: 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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