

Safety Data Sheet

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 30-3779-3
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 2.02

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 05/08/17
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 02/03/15

SECTION 1: Identification

1.1. Product identifier

3MTM Aerospace Sealant AC-770 B-2 PMF

Product Identification Numbers

70-0052-0447-7, 70-0052-0449-3, 70-0052-0450-1, 70-0052-0455-0, 70-0052-0456-8, 70-0052-0681-1, 70-0052-0682-9

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.

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.

Causes damage to organs through prolonged or repeated exposure: nervous system | respiratory system |

Precautionary Statements

Prevention:

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.

Get medical advice/attention if you feel unwell.

Disposal:

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

2.3. Hazards not otherwise classified

9% of the mixture consists of ingredients of unknown acute oral toxicity.

9% 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 | 65 - 75 |
| CALCIUM CARBONATE | 471-34-1 | 10 - 20 |
| MANGANESE DIOXIDE | 1313-13-9 | 1 - 10 Trade Secret * |
| NON-HAZARDOUS COMPONENTS | Trade Secret* | 0 - 10 |
| AMORPHOUS SILICA | 67762-90-7 | 0.1 - 2 |
| PHENOL-FORMALDEHYDE RESIN | 28470-78-2 | 0.5 - 2 |
| EPOXY RESIN | 25085-99-8 | 0.1 - 1 Trade Secret * |
| PHENOL-FORMALDEHYDE POLYMER | 9003-35-4 | 0.01 - 0.2 Trade Secret |
| | | * |
| PHTHALIC ANHYDRIDE | 85-44-9 | < 0.1 |
| SODIUM HYDROXIDE | 1310-73-2 | <= 0.1 |

^{*}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.

Eve Contact:

No need for first aid is anticipated.

If Swallowed:

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

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

See Section 11.1. Information on toxicological effects.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

SubstanceConditionFormaldehydeDuring CombustionCarbon monoxideDuring CombustionCarbon dioxideDuring 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.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible.

Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage including any incompatibilities

Store away from heat. 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 |
|--------------------------------|------------|--------|---|---|
| SODIUM HYDROXIDE | 1310-73-2 | ACGIH | CEIL:2 mg/m3 | |
| SODIUM HYDROXIDE | 1310-73-2 | OSHA | TWA:2 mg/m3 | |
| MANGANESE COMPOUNDS | 1313-13-9 | OSHA | CEIL(as Mn):5 mg/m3 | |
| MANGANESE, INORGANIC COMPOUNDS | 1313-13-9 | ACGIH | TWA(as Mn, inhalable fraction):0.1 mg/m3;TWA(as Mn, respirable fraction):0.02 mg/m3 | A4: Not class. as human carcin |
| Limestone | 471-34-1 | OSHA | TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3 | |
| SILICA, AMORPHOUS | 67762-90-7 | OSHA | TWA concentration:0.8 mg/m3;TWA:20 millions of particles/cu. ft. | |
| PHTHALIC ANHYDRIDE | 85-44-9 | ACGIH | TWA:1 ppm | A4: Not class. as human carcin, Dermal/Respiratory Sensitizer |
| PHTHALIC ANHYDRIDE | 85-44-9 | OSHA | TWA:12 mg/m3(2 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:

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.

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

General Physical Form: Liquid

Odor, Color, Grade: Sulphurous odor; dark paste

Odor threshold No Data Available
pH Not Applicable
Melting point Not Applicable

Melting pointNot ApplicableBoiling PointNo Data Available

Flash Point >=200 °F [Test Method:Closed Cup]

Evaporation rateNo Data AvailableFlammability (solid, gas)Not ApplicableFlammable Limits(LEL)No Data AvailableFlammable Limits(UEL)No Data AvailableVapor PressureNo Data AvailableVapor DensityNo Data Available

Density 1.1 g/ml

Specific Gravity 1.1 [Ref Std:WATER=1]

Solubility in Water Nil

Solubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data AvailableViscosityNo Data Available

Volatile Organic Compounds5.4 g/l [*Test Method*:calculated SCAQMD rule 443.1] **VOC Less H2O & Exempt Solvents**5.4 g/l [*Test Method*:calculated SCAQMD rule 443.1]

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Reducing agents Strong bases Strong acids

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.

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.

Eve Contact:

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

Ingestion:

No known health effects.

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.

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- | Rat | LC50 3 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |
| CALCIUM CARBONATE | Ingestion | Rat | LD50 6,450 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 |
| AMORPHOUS SILICA | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| AMORPHOUS SILICA | Inhalation- | Rat | LC50 > 0.691 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |
| AMORPHOUS SILICA | Ingestion | Rat | LD50 > 5,110 mg/kg |
| PHENOL-FORMALDEHYDE RESIN | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| PHENOL-FORMALDEHYDE RESIN | Inhalation- | | LC50 estimated to be > 12.5 mg/l |
| | Dust/Mist | | |
| PHENOL-FORMALDEHYDE RESIN | Ingestion | | LD50 estimated to be > 5,000 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 |
| PHTHALIC ANHYDRIDE | Dermal | | estimated to be > 5,000 mg/kg |
| PHTHALIC ANHYDRIDE | Inhalation- | | estimated to be > 12.5 mg/l |
| | Dust/Mist | | |
| PHTHALIC ANHYDRIDE | Ingestion | | estimated to be 300 - 2,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---------------------------|------------------|---------------------------|
| POLYSULFIDE RUBBER | Rabbit | No significant irritation |
| CALCIUM CARBONATE | Rabbit | No significant irritation |
| AMORPHOUS SILICA | Rabbit | No significant irritation |
| PHENOL-FORMALDEHYDE RESIN | Professio nal | No significant irritation |
| | judgeme | |

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| | nt | |
|-----------------------------|--------|---------------|
| EPOXY RESIN | Rabbit | Mild irritant |
| PHENOL-FORMALDEHYDE POLYMER | Human | Mild irritant |
| | and | |
| | animal | |
| SODIUM HYDROXIDE | Rabbit | Corrosive |

Serious Eye Damage/Irritation

| Name | Species | Value |
|-----------------------------|-----------|---------------------------|
| | | |
| POLYSULFIDE RUBBER | Rabbit | No significant irritation |
| CALCIUM CARBONATE | Rabbit | No significant irritation |
| AMORPHOUS SILICA | Rabbit | No significant irritation |
| PHENOL-FORMALDEHYDE RESIN | Professio | Mild irritant |
| | nal | |
| | judgeme | |
| | nt | |
| EPOXY RESIN | Rabbit | Moderate irritant |
| PHENOL-FORMALDEHYDE POLYMER | Human | Moderate irritant |
| | and | |
| | animal | |
| SODIUM HYDROXIDE | Rabbit | Corrosive |

Skin Sensitization

| Name | Species | Value |
|-----------------------------|------------------------|----------------|
| POLYSULFIDE RUBBER | | Not classified |
| AMORPHOUS SILICA | Human and animal | Not classified |
| EPOXY RESIN | Human and animal | Sensitizing |
| PHENOL-FORMALDEHYDE POLYMER | Human and animal | Sensitizing |
| SODIUM HYDROXIDE | Human | Not classified |

Respiratory Sensitization

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

Germ Cell Mutagenicity

| Name | Route | Value |
|------------------|----------|--|
| | | |
| AMORPHOUS SILICA | In Vitro | Not mutagenic |
| EPOXY RESIN | In vivo | Not mutagenic |
| EPOXY RESIN | In Vitro | Some positive data exist, but the data are not |
| | | sufficient for classification |
| SODIUM HYDROXIDE | In Vitro | Not mutagenic |

Carcinogenicity

| cui cinogenicio, | | | |
|------------------|-----------|---------|--|
| Name | Route | Species | Value |
| AMORPHOUS SILICA | Not | Mouse | Some positive data exist, but the data are not |
| | Specified | | sufficient for classification |
| EPOXY RESIN | Dermal | Mouse | Some positive data exist, but the data are not |
| | | | sufficient for classification |

Reproductive Toxicity

Reproductive and/or Developmental Effects

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| Name | Route | Value | Species | Test Result | Exposure Duration |
|-------------------|-----------|--|---------|--------------------------|------------------------------|
| CALCIUM CARBONATE | Ingestion | Not classified for development | Rat | NOAEL 625 mg/kg/day | premating & during gestation |
| 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 organogenesi s |
| 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 organogenesi s |
| 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 | |
| SODIUM HYDROXIDE | Inhalation | respiratory irritation | May cause respiratory irritation | Human | 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 |
| AMORPHOUS SILICA | Inhalation | respiratory system silicosis | 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 |

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. If no other disposal options are available, waste product that has been completely cured or polymerized may be placed in a landfill properly designed for industrial waste. 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.

311/312 Hazard Categories:

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

EPCRA 311/312 Hazard Classifications (effective January 1, 2018):

Physical Hazards

Not applicable

Health Hazards

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):

IngredientC.A.S. No% by WtMANGANESE DIOXIDE (MANGANESE1313-13-91 - 10COMPOUNDS)

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.

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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