# Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Regulations.

## SECTION 1: Identification

### 1.1. Product identifier

3M™ Structural Bonding Tape 9270 with Components

**Product Identification Numbers**

| | | | | |
|---|---|---|---|---|
| test913 | test606 | test607 | test608 | test609 |
| test610 | test611 | test612 | test613 | test614 |
| test615 | test616 | 41-3701-7009-8 | 44-0043-8922-5 | 70-0701-5374-0 |
| 70-0702-9001-3 | 70-0702-9017-9 | 70-0702-9047-6 | 70-0708-4814-1 | 70-0711-0070-8 |
| 70-0711-0131-8 | 70-0711-0136-7 | 70-0711-0287-8 | 70-0711-0340-5 | 70-0711-0396-7 |
| 70-0711-0399-1 | 70-0711-0409-8 | 70-0711-0429-6 | 70-0711-0442-9 | 70-0711-0486-6 |
| 70-0711-0491-6 | 70-0711-0516-0 | 70-0711-0526-9 | 70-0711-0545-9 | 70-0711-0549-1 |
| 70-0711-0556-6 | 70-0711-0568-1 | 70-0711-0569-9 | 70-0711-0571-5 | 70-0711-0585-5 |
| 70-0711-0586-3 | 70-0711-0587-1 | 70-0711-0589-7 | 70-0711-0590-5 | 70-0711-0593-9 |
| 70-0711-0603-6 | 70-0711-0604-4 | 70-0711-0612-7 | 70-0711-0613-5 | 70-0711-0630-9 |
| 70-0711-0631-7 | 70-0711-0632-5 | 70-0711-0633-3 | 70-0711-0634-1 | 70-0711-0635-8 |
| 70-0711-0636-6 | 70-0711-0637-4 | 70-0711-0638-2 | 70-0711-0639-0 | 70-0711-0640-8 |
| 70-0711-0641-6 | 70-0711-0683-8 | 70-0711-0708-3 | 70-0718-0003-4 | 70-0718-0034-9 |
| 70-0718-0036-4 | 70-0718-0041-4 | 70-0718-0042-2 | 70-0718-0046-3 | 70-0718-0050-5 |
| 70-0718-0096-8 | 70-0718-0099-2 | 70-0718-0183-4 | 75-3473-0607-0 | DT-2114-2854-5 |
| DT-2114-3207-5 | DT-2114-3235-6 | DT-2114-3295-0 | DT-2114-3307-3 | DT-2114-3326-3 |
| DT-2114-3505-2 | DT-2114-3647-2 | DT-2114-3976-5 | DT-2114-4003-7 | DT-2114-4133-2 |
| DT-2114-4174-6 | DT-2114-4226-4 | DT-2114-4341-1 | DT-2114-4415-3 | DT-2114-4425-2 |
| DT-2114-4559-8 | DT-2114-4577-0 | DT-2114-4668-7 | DT-2114-4708-1 | DT-2114-4727-1 |
| DT-2114-4734-7 | DT-2114-4738-8 | DT-2114-4739-6 | DT-2114-4758-6 | DT-2114-4792-5 |
| DT-2114-4793-3 | DT-2114-4794-1 | DT-2114-4799-0 | DT-2114-4817-0 | DT-2114-4837-8 |
| DT-2114-4839-4 | DT-2114-4840-2 | DT-2114-4848-5 | DT-2114-4857-6 | DT-2114-4883-2 |
| DT-2114-4901-2 | DT-2114-4920-2 | DT-2114-4923-6 | DT-2114-4924-4 | DT-2114-4953-3 |
| DT-2114-4988-9 | DT-2114-5006-9 | DT-2114-5025-9 | DT-2114-5086-1 | DT-2114-5170-3 |
| DT-2114-5187-7 | DT-2114-5189-3 | DT-2114-5197-6 | DT-2114-5199-2 | DT-2114-5204-0 |
| DT-2114-5218-0 | DT-2114-5262-8 | DT-2114-5283-4 | DT-2114-5338-6 | DT-2114-5504-3 |
| DT-9270-0015-8 | DT-9270-0050-5 | DT-9270-0114-9 | DT-9270-0270-9 | DT-9270-0400-2 |
| DU-9270-0015-6 | DU-9270-0030-5 | DU-9270-0035-4 | DU-9270-0040-4 | DU-9270-0045-3 |
| DU-9270-0050-3 | DU-9270-0060-2 | DU-9270-0070-1 | DU-9270-0080-0 | DU-9270-0090-9 |
| DU-9270-0135-2 | DU-9270-0270-7 | DU-9270-0400-0 | DU-9270-9270-8 | DU-9270-P030-8 |
| DU-9270-P040-7 | DU-9270-P045-6 | DU-9270-P050-6 | DU-9270-P060-5 | DU-9270-P070-4 |
| DU-9270-P075-3 | DU-9270-P080-3 | DU-9270-P090-2 | DU-9270-P095-1 | DU-9270-P115-7 |
| J1-6090-1678-4 | JR-1510-0948-7 | JR-1527-1381-4 | JR-1540-3802-0 | JR-1540-3820-2 |
| JR-1540-3904-4 | JR-1540-5616-2 | JR-1540-7094-0 | JR-1540-7097-3 | JR-1540-7117-9 |

| | | | | |
|---|---|---|---|---|
| JR-1540-7118-7 | JR-1541-0588-6 | JR-1541-2208-9 | JR-1541-3226-0 | JR-1541-3259-1 |
| JR-1541-4511-4 | JR-1541-4522-1 | KW-0000-0067-4 | KW-0000-0080-7 | KW-0000-0081-5 |
| UU-0014-5141-6 | UU-0014-9996-9 | UU-0015-5337-7 | UU-0015-5338-5 | UU-0015-5339-3 |
| UU-0015-5341-9 | UU-0015-5342-7 | UU-0015-5343-5 | UU-0015-5344-3 | UU-0015-5345-0 |
| UU-0015-5346-8 | UU-0015-5347-6 | UU-0015-5348-4 | UU-0015-5349-2 | UU-0015-5475-5 |
| UU-0015-5476-3 | UU-0015-5477-1 | UU-0015-5478-9 | UU-0015-5506-7 | UU-0015-5533-1 |
| UU-0015-5534-9 | UU-0015-5535-6 | UU-0015-5536-4 | UU-0015-5537-2 | UU-0015-5538-0 |
| UU-0015-5539-8 | UU-0015-5566-1 | UU-0015-5567-9 | UU-0015-5569-5 | UU-0015-5570-3 |
| UU-0015-5571-1 | UU-0015-5572-9 | UU-0015-5575-2 | UU-0015-5577-8 | UU-0015-5578-6 |
| UU-0015-5601-6 | UU-0015-5603-2 | UU-0015-5604-0 | UU-0015-5605-7 | UU-0015-5606-5 |
| UU-0015-5607-3 | UU-0015-5608-1 | UU-0015-5609-9 | UU-0015-5610-7 | UU-0015-5621-4 |
| UU-0015-5624-8 | UU-0015-9773-9 | UU-0016-0251-3 | UU-0016-2019-2 | UU-0016-2392-3 |
| UU-0016-2393-1 | UU-0016-4228-7 | UU-0030-2426-0 | UU-0030-2657-0 | UU-0031-1478-0 |
| UU-0031-1538-1 | UU-0031-6688-9 | UU-0037-0733-6 | UU-0042-2766-4 | UU-0042-2772-2 |
| UU-0042-3184-9 | UU-0049-7389-5 | UU-0063-8352-3 | UU-0067-9053-7 | UU-0067-9243-4 |
| UU-0080-3327-4 | UU-0080-3328-2 | UU-0080-4748-0 | UU-0080-4749-8 | UU-0080-5184-7 |
| UU-0080-8813-8 | UU-0081-2699-5 | UU-0082-7257-5 | UU-0082-8641-9 | UU-0082-8642-7 |
| UU-0083-4165-1 | UU-0087-6972-9 | UU-0090-6490-6 | UU-0090-7891-4 | UU-0090-7892-2 |
| UU-0090-9221-2 | UU-0092-3052-3 | UU-0092-3053-1 | UU-0092-3054-9 | UU-0092-5767-4 |
| UU-0092-5768-2 | UU-0092-5770-8 | UU-0092-5901-9 | UU-0092-5903-5 | UU-0092-6295-5 |
| UU-0093-4388-8 | UU-0094-5742-3 | UU-0100-7038-9 | UU-0100-7092-6 | UU-0100-7093-4 |
| UU-0100-7094-2 | UU-0101-2063-0 | UU-0102-9967-3 | UU-0103-0251-9 | UU-0103-1671-7 |
| UU-0103-2555-1 | UU-0103-3124-5 | UU-0103-3125-2 | UU-0103-3126-0 | UU-0103-3127-8 |
| UU-0103-3128-6 | UU-0108-1633-6 | UU-0108-8652-9 | UU-0109-1008-9 | UU-0109-1061-8 |
| UU-0109-3882-5 | UU-0109-3883-3 | UU-0109-4719-8 | UU-0109-5564-7 | UU-0110-2775-0 |
| UU-0111-0958-2 | UU-0111-4942-2 | UU-0111-9634-0 | UU-0112-0302-1 | UU-0112-5349-7 |
| UU-0112-6405-6 | UU-0112-6453-6 | UU-0113-1966-0 | UU-0113-2143-5 | UU-0113-6149-8 |
| UU-0114-1134-3 | UU-0114-1179-8 | UU-0114-2623-4 | UU-0114-4942-6 | UU-0114-5042-4 |
| UU-0115-2595-1 | UU-0115-8776-1 | UU-0115-9861-0 | UU-0116-1572-9 | UU-0116-3001-7 |
| UU-0116-3181-7 | UU-0120-2113-3 | UU-0120-2114-1 | UU-0120-2115-8 | UU-0120-2116-6 |
| UU-0120-2117-4 | UU-0120-2118-2 | UU-0120-2119-0 | UU-0120-2120-8 | UU-0120-2141-4 |
| UU-0120-3586-9 | UU-0120-3587-7 | UU-0120-3588-5 | UU-0120-3589-3 | UU-0120-3590-1 |
| UU-0120-7643-4 | UU-0120-7894-3 | UU-0121-5421-5 | UU-0125-2031-6 | UU-0127-8259-3 |
| UU-0130-5991-8 | UU-0134-8713-5 | UU-0138-9997-4 | UU-0139-0057-4 | UU-0141-6130-9 |
| UU-0141-8100-0 | UU-0146-8600-8 | UU-0148-4616-4 | UU-0148-8830-7 | UU-0148-8953-7 |
| UU-0149-3662-7 | UU-0149-3685-8 | UU-0149-3871-4 | UU-0149-6212-8 | UU-0149-9769-4 |
| UU-0150-0742-8 | XA-2000-0110-6 | XA-2000-0111-4 | XA-2000-0177-5 | XA-2000-0219-5 |
| XT-0041-5345-5 | XT-0041-5346-3 | XT-0041-5347-1 | XT-0090-0231-9 | |

**1.2. Recommended use and restrictions on use**

**Intended Use**
Automotive - Industrial/Professional use

**Specific Use**
Structural Bonding Tape

**Restrictions on use**
Not applicable

**1.3. Supplier's details**

**Company:** 3M Canada Company
**Division:** Automotive and Aerospace Solutions Division
**Address:** 1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1
**Telephone:** (800) 364-3577

**Website:** www.3M.ca

**1.4. Emergency telephone number**
Medical Emergency Telephone:1-800-3M HELPS / 1800 364 3577

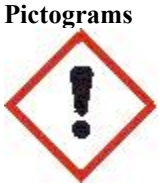
## SECTION 2: Hazard identification

**2.1. Classification of the substance or mixture**
Serious Eye Damage/Irritation: Category 2B.
Skin Sensitizer: Category 1.

**2.2. Label elements**
**Signal word**
Warning

**Symbols**
Exclamation mark |

**Pictograms**



**Hazard Statements**

Causes eye irritation. May cause an allergic skin reaction.

**Precautionary statements**

**Prevention:**
Avoid breathing vapours. Wash exposed skin thoroughly after handling. 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 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical advice. 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.

**2.3. Other hazards**
None known.

## SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | C.A.S. No. | % by Wt | Common Name |
|---|---|---|---|
| Acrylate Copolymer (NJTSRN 04499600-7176) | Trade Secret | 30 - 60 | Not Applicable |
| Epoxy Resin | 25068-38-6 | 10 - 30 Trade Secret * | Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane |

| | | | |
|---|---|---|---|
| Solid Epoxy Resin | 25036-25-3 | 10 - 30 Trade Secret * | Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane] |
| Dicyandiamide | 461-58-5 | 1 - 5 | Guanidine, cyano- |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | 112945-52-5 | 1 - 5 | Fumed amorphous silica, crystalline-free |
| Substituted triazine (NJTSRN 04499600-6282) | Trade Secret | 0.5 - 1.5 | Not Applicable |
| 2-HYDROXY-3-PHENOXYPROPYL ACRYLATE | 16969-10-1 | < 1 | No Data Available |
| VINYLCAPROLACTAM | 2235-00-9 | < 1 | 2H-Azepin-2-one, 1-ethenylhexahydro-; Vinylcaprolactam |
| Carbon Black | 1333-86-4 | < 0.1 | Carbon black |
| If present, Component (e.g., button, clip, bracket) is considered a non-hazardous article and is not factored into the ingredient percentages. | None | Not Applicable | Not Applicable |

Acrylate Copolymer is a non-hazardous material according to WHMIS criteria. Specific information has been withheld as a trade secret.
Substituted triazine is a non-hazardous material according to WHMIS criteria. Specific information has been withheld as a trade secret.

Carbon black is inextricably bound in this product. Exposure to carbon black is not expected during product use

*The concentration (exact or range) of this component 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. Unsuitable extinguishing media**
None Determined

**5.3. Special hazards arising from the substance or mixture**
None inherent in this product.

**Hazardous Decomposition or By-Products**

| Substance | Condition |
|---|---|
| Aldehydes | During Combustion |
| Carbon monoxide | During Combustion |
| Carbon dioxide | During Combustion |
| Hydrogen Chloride | During Combustion |
| Hydrogen Cyanide | During Combustion |
| Ammonia | During Combustion |
| Oxides of Nitrogen | During Combustion |

**5.4. Special protection actions for fire-fighters**
Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA). 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. 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. 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 or professional use only. Not for consumer sale or use. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

**7.2. Conditions for safe storage including any incompatibilities**
Protect from sunlight. Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents. Store away from amines.

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|---|---|---|---|---|
| Carbon Black | 1333-86-4 | ACGIH | TWA(inhalable fraction):3 mg/m3 | |
| VINYLCAPROLACTAM | 2235-00-9 | Manufacturer determined | TWA(8 hours):0.1 ppm(0.57 mg/m3) | |

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

### 8.2. Exposure controls

**8.2.1. Engineering controls**
No engineering controls required.

**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
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**
None required.

# SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | |
|---|---|
| **Physical state** | Solid |
| **Specific Physical Form:** | Roll of Tape |
| **Colour** | Gray |

| | |
|---|---|
| **Odour** | Mild Acrylate |
| **Odour threshold** | *No Data Available* |
| **pH** | *Not Applicable* |
| **Melting point/Freezing point** | *No Data Available* |
| **Boiling point** | *Not Applicable* |
| **Flash Point** | No flash point |
| **Evaporation rate** | *Not Applicable* |
| **Flammability** | Not Applicable |
| **Flammable Limits(LEL)** | *Not Applicable* |
| **Flammable Limits(UEL)** | *Not Applicable* |
| **Vapour Pressure** | *Not Applicable* |
| **Relative Vapour Density** | *Not Applicable* |
| **Density** | *No Data Available* |
| **Relative density** | *No Data Available* |
| **Water solubility** | *Not Applicable* |
| **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** | *Not Applicable* |
| **Volatile Organic Compounds** | *Not Applicable* |
| **Percent volatile** | *Not Applicable* |
| **VOC Less H2O & Exempt Solvents** | *Not Applicable* |
| **Molecular weight** | *No Data Available* |

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

## SECTION 10: Stability and reactivity

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

**10.2. Chemical stability**
Stable.

**10.3. Possibility of hazardous reactions**
Hazardous polymerization will not occur.

**10.4. Conditions to avoid**
Heat

**10.5. Incompatible materials**
Strong acids
Strong bases
Strong oxidizing agents
Amines

**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:**
No health effects are expected.

**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:**
Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

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

**Carcinogenicity:**

| Ingredient | CAS No. | Class Description | Regulation |
|---|---|---|---|
| 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 >5,000 mg/kg |
| Epoxy Resin | Dermal | Rat | LD50 > 1,600 mg/kg |
| Epoxy Resin | Ingestion | Rat | LD50 > 1,000 mg/kg |
| Solid Epoxy Resin | Dermal | Rat | LD50 > 1,600 mg/kg |
| Solid Epoxy Resin | Ingestion | Rat | LD50 > 1,000 mg/kg |
| Dicyandiamide | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| Dicyandiamide | Ingestion | Rat | LD50 > 30,000 mg/kg |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | Ingestion | Rat | LD50 > 5,110 mg/kg |
| Substituted triazine (NJTSRN 04499600-6282) | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| Substituted triazine (NJTSRN 04499600-6282) | Ingestion | Rat | LD50 > 2,000 mg/kg |
| VINYLCAPROLACTAM | Dermal | Rabbit | LD50 1,700 mg/kg |
| VINYLCAPROLACTAM | Ingestion | Rat | LD50 1,049 mg/kg |
| 2-HYDROXY-3-PHENOXYPROPYL ACRYLATE | Dermal | Professional | LD50 estimated to be 2,000 - 5,000 mg/kg |

| | | | |
|---|---|---|---|
| | | judgement | |
| 2-HYDROXY-3-PHENOXYPROPYL ACRYLATE | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Carbon Black | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| Carbon Black | Ingestion | Rat | LD50 > 8,000 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Epoxy Resin | Rabbit | Mild irritant |
| Solid Epoxy Resin | Rabbit | Mild irritant |
| Dicyandiamide | Human and animal | Minimal irritation |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | Rabbit | No significant irritation |
| Substituted triazine (NJTSRN 04499600-6282) | In vitro data | No significant irritation |
| VINYLCAPROLACTAM | Rabbit | Minimal irritation |
| 2-HYDROXY-3-PHENOXYPROPYL ACRYLATE | Rabbit | No significant irritation |
| Carbon Black | Rabbit | No significant irritation |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| Epoxy Resin | Rabbit | Moderate irritant |
| Solid Epoxy Resin | Rabbit | Moderate irritant |
| Dicyandiamide | Professional judgement | Mild irritant |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | Rabbit | No significant irritation |
| Substituted triazine (NJTSRN 04499600-6282) | In vitro data | No significant irritation |
| VINYLCAPROLACTAM | Rabbit | Severe irritant |
| 2-HYDROXY-3-PHENOXYPROPYL ACRYLATE | Rabbit | Corrosive |
| Carbon Black | Rabbit | No significant irritation |

**Skin Sensitization**

| Name | Species | Value |
|---|---|---|
| Epoxy Resin | Human and animal | Sensitizing |
| Solid Epoxy Resin | Human and animal | Sensitizing |
| Dicyandiamide | Guinea pig | Not classified |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | Human and animal | Not classified |
| Substituted triazine (NJTSRN 04499600-6282) | In vitro data | Not classified |
| VINYLCAPROLACTAM | Mouse | Sensitizing |
| 2-HYDROXY-3-PHENOXYPROPYL ACRYLATE | Guinea pig | Sensitizing |

**Respiratory Sensitization**

| Name | Species | Value |
|---|---|---|
| Epoxy Resin | Human | Not classified |
| Solid Epoxy Resin | Human | Not classified |

### Germ Cell Mutagenicity

| Name | Route | Value |
|---|---|---|
| Epoxy Resin | In vivo | Not mutagenic |
| Epoxy Resin | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Solid Epoxy Resin | In vivo | Not mutagenic |
| Solid Epoxy Resin | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Dicyandiamide | In Vitro | Not mutagenic |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | In Vitro | Not mutagenic |
| Substituted triazine (NJTSRN 04499600-6282) | In Vitro | Not mutagenic |
| VINYLCAPROLACTAM | In Vitro | Not mutagenic |
| 2-HYDROXY-3-PHENOXYPROPYL ACRYLATE | 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 |

### Carcinogenicity

| Name | Route | Species | Value |
|---|---|---|---|
| Epoxy Resin | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Solid Epoxy Resin | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Dicyandiamide | Ingestion | Rat | Not carcinogenic |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | 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 |

### Reproductive Toxicity

### Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|
| 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 |
| Solid Epoxy Resin | Ingestion | Not classified for female reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| Solid Epoxy Resin | Ingestion | Not classified for male reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| Solid Epoxy Resin | Dermal | Not classified for development | Rabbit | NOAEL 300 mg/kg/day | during organogenesis |
| Solid Epoxy Resin | 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 | premating & 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 | premating & during gestation |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Synthetic Amorphous Silica, Fumed, | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 | 1 generation |

| | | | | | |
|---|---|---|---|---|---|
| Crystalline Free | | | | mg/kg/day | |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |
| 2-HYDROXY-3-PHENOXYPROPYL ACRYLATE | Ingestion | Not classified for female reproduction | Rat | NOAEL 100 mg/kg/day | premating into lactation |
| 2-HYDROXY-3-PHENOXYPROPYL ACRYLATE | Ingestion | Not classified for male reproduction | Rat | NOAEL 100 mg/kg/day | 28 days |
| 2-HYDROXY-3-PHENOXYPROPYL ACRYLATE | Ingestion | Not classified for development | Rat | NOAEL 100 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 |
|---|---|---|---|---|---|---|
| Epoxy Resin | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Solid Epoxy Resin | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| VINYLCAPROLACTAM | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL Not available | |
| 2-HYDROXY-3-PHENOXYPROPYL ACRYLATE | 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 |
|---|---|---|---|---|---|---|
| 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 | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Epoxy Resin | Ingestion | heart | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Epoxy Resin | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Epoxy Resin | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Epoxy Resin | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Epoxy Resin | Ingestion | eyes | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Epoxy Resin | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Solid Epoxy Resin | Dermal | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 2 years |
| Solid Epoxy Resin | Dermal | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| Solid Epoxy Resin | Ingestion | auditory system | Not classified | Rat | NOAEL | 28 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | 1,000 mg/kg/day | |
| Solid Epoxy Resin | Ingestion | heart | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Solid Epoxy Resin | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Solid Epoxy Resin | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Solid Epoxy Resin | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Solid Epoxy Resin | Ingestion | eyes | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Solid Epoxy Resin | Ingestion | 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 |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | Inhalation | silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| VINYLCAPROLACTAM | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | NOAEL 0.001 mg/l | 28 days |
| VINYLCAPROLACTAM | Inhalation | blood | Not classified | Rat | NOAEL 0.18 mg/l | 90 days |
| VINYLCAPROLACTAM | Inhalation | liver | Not classified | Rat | NOAEL 0.18 mg/l | 90 days |
| VINYLCAPROLACTAM | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 0.18 mg/l | 90 days |
| VINYLCAPROLACTAM | Inhalation | eyes | Not classified | Rat | NOAEL 0.18 mg/l | 90 days |
| VINYLCAPROLACTAM | Ingestion | liver | Not classified | Rat | NOAEL 260 mg/kg/day | 3 months |
| 2-HYDROXY-3-PHENOXYPROPYL ACRYLATE | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 100 mg/kg/day | 28 days |
| 2-HYDROXY-3-PHENOXYPROPYL ACRYLATE | Ingestion | endocrine system | Not classified | Rat | NOAEL 100 mg/kg/day | 28 days |
| 2-HYDROXY-3-PHENOXYPROPYL ACRYLATE | Ingestion | blood | Not classified | Rat | NOAEL 100 mg/kg/day | 28 days |
| 2-HYDROXY-3-PHENOXYPROPYL ACRYLATE | Ingestion | immune system | Not classified | Rat | NOAEL 100 mg/kg/day | 28 days |
| 2-HYDROXY-3-PHENOXYPROPYL ACRYLATE | Ingestion | nervous system | Not classified | Rat | NOAEL 100 mg/kg/day | 28 days |
| 2-HYDROXY-3-PHENOXYPROPYL ACRYLATE | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 100 mg/kg/day | 28 days |
| Carbon Black | Inhalation | pneumoconiosis | Not classified | 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

No data available.

## 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 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. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Global inventory status**

Contact 3M for more information. 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.

## SECTION 16: Other information

**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.**
**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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