# Safety Data Sheet



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| **Document group:** | 20-6817-9 | **Version number:** | 14.00 |
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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™ Screen Printing UV Ink Series 9803 Mixing Black

**Product Identification Numbers**
75-3470-5594-1

### 1.2. Recommended use and restrictions on use

**Intended Use**
Ink

**Specific Use**
Screen Printing Ink

**Restrictions on use**
Not applicable

### 1.3. Supplier's details

| | |
|---|---|
| **Company:** | 3M Canada Company |
| **Division:** | Commercial Branding and Transportation 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 2A.
Skin Sensitizer: Category 1A.
Carcinogenicity: Category 2.
Reproductive Toxicity: Category 1B.
Specific Target Organ Toxicity (repeated exposure): Category 1.

**2.2. Label elements**
**Signal word**
Danger

**Symbols**
Exclamation mark |Health Hazard |

**Pictograms**

**Hazard Statements**

Causes serious eye irritation. May cause an allergic skin reaction. Suspected of causing cancer. May damage fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure: 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 vapours, dust, or spray. Wash exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and respiratory protection.

**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 exposed or concerned: Get medical attention. Get medical attention if you feel unwell. 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.

**Storage:**
Store locked up.

**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 |
|---|---|---|---|
| PHENOXY ETHYL ACRYLATE | 48145-04-6 | 30 - 40 Trade Secret * | 2-Propenoic acid, 2-phenoxyethyl ester |
| METHACRYLATE POLYMER | Trade Secret | 15 - 25 | Not Applicable |
| VINYLCAPROLACTAM | 2235-00-9 | 10 - 20 Trade Secret * | 2H-Azepin-2-one, 1-ethenylhexahydro-; Vinylcaprolactam |
| Carbon Black | 1333-86-4 | 1 - 5 Trade Secret * | Carbon black |

| | | | |
|---|---|---|---|
| PROPOXYLATED GLYCEROL TRIACRYLATE | 52408-84-1 | 1 - 5 Trade Secret * | glycerol, propoxylated, esters with Acrylic acid; Propoxylated glycerol triacrylate |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | 112945-52-5 | 1 - 5 | Fumed amorphous silica, crystalline-free |
| 2-PHENOXYETHANOL | 122-99-6 | 0.5 - 1.5 Trade Secret * | Ethanol, 2-phenoxy-; Ethylene glycol monophenyl ether |
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE | 7328-17-8 | 0.5 - 1.5 Trade Secret * | 2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester; Carbitol acrylate |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | 119313-12-1 | 0.1 - 1 Trade Secret * | 1-Butanone, 2-(dimethylamino)-1-[4-(4-morpholinyl)p henyl]-2-(phenylmethyl)- |
| 1-Propanone, 2-methyl-1-[4-(methylthio)phenyl]-2-(4-morpholinyl)- | 71868-10-5 | 0.1 - 1 Trade Secret * | 2-Methyl-4'-(methylthio)-2-morpholinopropiophenone |
| OCTAMETHYLCYCLOTETRASILOXANE | 556-67-2 | 0.1 - 1.0 Trade Secret * | Octamethylcyclotetrasiloxane |
| Siloxanes and Silicones, di-Me, reaction products with silica | 67762-90-7 | < 1 | Siloxanes and Silicones, di-Me, reaction products with silica |
| TMPEOTA | 28961-43-5 | < 1 | Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2-propenyl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) |
| Xylene | 1330-20-7 | < 1 | Dimethylbenzene |
| 4-Methoxyphenol | 150-76-5 | < 0.5 | 4-Methoxyphenol |

METHACRYLATE POLYMER is a non-hazardous material according to WHMIS criteria. Specific information has been withheld as a trade secret.

*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:**
Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. 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). Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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

**Hazardous Decomposition or By-Products**

| Substance | Condition |
|---|---|
| Formaldehyde | During Combustion |
| Carbon monoxide | During Combustion |
| Carbon dioxide | During Combustion |

**5.4. Special protection actions for fire-fighters**
Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. 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**
Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice.

**6.2. Environmental precautions**
Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

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

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
For industrial or professional use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/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.) Use personal protective equipment (gloves, respirators, etc.) as required.

**7.2. Conditions for safe storage including any incompatibilities**
Store away from heat. Store away from oxidizing agents. Store locked up.

## 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 |
|---|---|---|---|---|
| Xylene | 1330-20-7 | ACGIH | TWA:20 ppm | |
| Carbon Black | 1333-86-4 | ACGIH | TWA(inhalable fraction):3 mg/m3 | |
| 4-Methoxyphenol | 150-76-5 | ACGIH | TWA:5 mg/m3 | |
| VINYLCAPROLACTAM | 2235-00-9 | Manufacturer determined | TWA(8 hours):0.1 ppm(0.57 mg/m3) | |
| OCTAMETHYLCYCLOTETRASILOXANE | 556-67-2 | AIHA | TWA:10 ppm | |

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**
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/vapours/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
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 (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 vapours and 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** | Liquid |
| **Specific Physical Form:** | Liquid |
| **Colour** | Black |
| **Odour** | Slight Acrylate |
| **Odour threshold** | *No Data Available* |
| **pH** | *Not Applicable* |
| **Melting point/Freezing point** | *Not Applicable* |
| **Boiling point** | > 148.9 ºC |
| **Flash Point** | > 93.3 ºC [*Test Method:*Pensky-Martens Closed Cup] |
| **Evaporation rate** | < 1 [*Ref Std:*BUOAC=1] |
| **Flammability** | Not Applicable |
| **Flammable Limits(LEL)** | *No Data Available* |
| **Flammable Limits(UEL)** | *No Data Available* |
| **Vapour Pressure** | < 160 Pa [@ 20 ºC ] |
| **Relative Vapour Density** | *No Data Available* |
| **Density** | Approximately 1.3 g/ml |
| **Relative density** | Approximately 1.3 [*Ref Std:*WATER=1] |
| **Water solubility** | Negligible |
| **Solubility- non-water** | *No Data Available* |
| **Partition coefficient: n-octanol/ water** | *No Data Available* |
| **Autoignition temperature** | *No Data Available* |
| **Decomposition temperature** | *No Data Available* |
| **Kinematic Viscosity** | *No Data Available* |
| **Volatile Organic Compounds** | 7 g/l |
| **Percent volatile** | 1 - 5 % weight |
| **VOC Less H2O & Exempt Solvents** | 7 g/l |

| | |
|---|---|
| **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 may occur. Upon loss of initiator or with exposure to heat.

**10.4. Conditions to avoid**
Sparks and/or flames
Heat

**10.5. Incompatible materials**
Strong oxidizing agents

**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:**
May cause additional health effects (see below).

**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:**
Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

**Ingestion:**
May be harmful if swallowed. Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. May cause additional health effects (see below).

**Additional Health Effects:**

**Prolonged or repeated exposure may cause target organ effects:**
Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish coloured skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

**Reproductive/Developmental Toxicity:**
Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

**Carcinogenicity:**
Contains a chemical or chemicals which can cause cancer.

| 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 | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Ingestion | | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| PHENOXY ETHYL ACRYLATE | Dermal | Rat | LD50 > 2,000 mg/kg |
| PHENOXY ETHYL ACRYLATE | Ingestion | Rat | LD50 > 5,000 mg/kg |
| METHACRYLATE POLYMER | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| METHACRYLATE POLYMER | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| VINYLCAPROLACTAM | Dermal | Rabbit | LD50 1,700 mg/kg |
| VINYLCAPROLACTAM | Ingestion | Rat | LD50 1,049 mg/kg |
| Carbon Black | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| Carbon Black | Ingestion | Rat | LD50 > 8,000 mg/kg |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Ingestion | Rat | LD50 > 2,000 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 |
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE | Dermal | | LD50 estimated to be 1,000 - 2,000 mg/kg |
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE | Ingestion | Rat | LD50 1,860 mg/kg |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | Dermal | Rat | LD50 > 2,000 mg/kg |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | Ingestion | Rat | LD50 > 5,000 mg/kg |
| 1-Propanone, 2-methyl-1-[4-(methylthio)phenyl]-2-(4-morpholinyl)- | Dermal | Rat | LD50 > 2,000 mg/kg |
| 1-Propanone, 2-methyl-1-[4-(methylthio)phenyl]-2-(4-morpholinyl)- | Ingestion | Rat | LD50 967 mg/kg |
| 2-PHENOXYETHANOL | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| 2-PHENOXYETHANOL | Inhalation-Dust/Mist | Rat | LC50 > 1.5 mg/l |
| 2-PHENOXYETHANOL | Ingestion | Rat | LD50 1,394 mg/kg |
| TMPEOTA | Dermal | Rabbit | LD50 > 13,200 mg/kg |
| TMPEOTA | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Xylene | Dermal | Rabbit | LD50 > 4,200 mg/kg |
| Xylene | Inhalation-Vapor (4 hours) | Rat | LC50 29 mg/l |
| Xylene | Ingestion | Rat | LD50 3,523 mg/kg |
| Siloxanes and Silicones, di-Me, reaction products with silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| OCTAMETHYLCYCLOTETRASILOXANE | Dermal | Rat | LD50 > 2,400 mg/kg |
| OCTAMETHYLCYCLOTETRASILOXANE | Inhalation-Dust/Mist (4 hours) | Rat | LC50 36 mg/l |
| OCTAMETHYLCYCLOTETRASILOXANE | Ingestion | Rat | LD50 > 4,800 mg/kg |
| Siloxanes and Silicones, di-Me, reaction products with silica | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Rat | LD50 > 5,110 mg/kg |
| 4-Methoxyphenol | Dermal | Rat | LD50 > 2,000 mg/kg |
| 4-Methoxyphenol | Ingestion | Rat | LD50 1,630 mg/kg |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name | Species | Value |
|---|---|---|
| PHENOXY ETHYL ACRYLATE | Rabbit | No significant irritation |
| VINYLCAPROLACTAM | Rabbit | Minimal irritation |
| Carbon Black | Rabbit | No significant irritation |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Rabbit | Minimal irritation |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | Rabbit | No significant irritation |
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE | Rabbit | Irritant |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | Rabbit | No significant irritation |
| 1-Propanone, 2-methyl-1-[4-(methylthio)phenyl]-2-(4-morpholinyl)- | Rabbit | No significant irritation |
| 2-PHENOXYETHANOL | Rabbit | No significant irritation |
| TMPEOTA | Rabbit | Minimal irritation |
| Xylene | Rabbit | Mild irritant |
| OCTAMETHYLCYCLOTETRASILOXANE | Rabbit | No significant irritation |
| Siloxanes and Silicones, di-Me, reaction products with silica | Rabbit | No significant irritation |
| 4-Methoxyphenol | Rabbit | Mild irritant |

### Serious Eye Damage/Irritation

| Name | Species | Value |
|---|---|---|
| PHENOXY ETHYL ACRYLATE | Rabbit | No significant irritation |
| VINYLCAPROLACTAM | Rabbit | Severe irritant |
| Carbon Black | Rabbit | No significant irritation |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Rabbit | Severe irritant |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | Rabbit | No significant irritation |
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE | Rabbit | Severe irritant |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | Rabbit | No significant irritation |
| 1-Propanone, 2-methyl-1-[4-(methylthio)phenyl]-2-(4-morpholinyl)- | Rabbit | No significant irritation |
| 2-PHENOXYETHANOL | Rabbit | Corrosive |
| TMPEOTA | Rabbit | Severe irritant |
| Xylene | Rabbit | Mild irritant |
| OCTAMETHYLCYCLOTETRASILOXANE | Rabbit | No significant irritation |
| Siloxanes and Silicones, di-Me, reaction products with silica | Rabbit | No significant irritation |
| 4-Methoxyphenol | Rabbit | Severe irritant |

### Skin Sensitization

| Name | Species | Value |
|---|---|---|
| PHENOXY ETHYL ACRYLATE | Guinea pig | Sensitizing |
| VINYLCAPROLACTAM | Mouse | Sensitizing |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Mouse | Sensitizing |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | Human and animal | Not classified |
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE | Guinea pig | Sensitizing |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | Guinea pig | Not classified |
| 2-PHENOXYETHANOL | Guinea pig | Not classified |
| TMPEOTA | Guinea pig | Sensitizing |
| OCTAMETHYLCYCLOTETRASILOXANE | Human and animal | Not classified |
| Siloxanes and Silicones, di-Me, reaction products with silica | Human and animal | Not classified |
| 4-Methoxyphenol | Guinea pig | Sensitizing |

**Respiratory Sensitization**

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

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| VINYLCAPROLACTAM | 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 |
| PROPOXYLATED GLYCEROL TRIACRYLATE | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | In Vitro | Not mutagenic |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | In Vitro | Not mutagenic |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | In vivo | Not mutagenic |
| 2-PHENOXYETHANOL | In Vitro | Not mutagenic |
| 2-PHENOXYETHANOL | In vivo | Not mutagenic |
| TMPEOTA | In vivo | Not mutagenic |
| TMPEOTA | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Xylene | In Vitro | Not mutagenic |
| Xylene | In vivo | Not mutagenic |
| OCTAMETHYLCYCLOTETRASILOXANE | In vivo | Not mutagenic |
| OCTAMETHYLCYCLOTETRASILOXANE | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Siloxanes and Silicones, di-Me, reaction products with silica | In Vitro | Not mutagenic |
| 4-Methoxyphenol | In vivo | Not mutagenic |
| 4-Methoxyphenol | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name | Route | Species | Value |
|---|---|---|---|
| Carbon Black | Dermal | Mouse | Not carcinogenic |
| Carbon Black | Ingestion | Mouse | Not carcinogenic |
| Carbon Black | Inhalation | Rat | Carcinogenic |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | Not Specified | Mouse | Some positive data exist, but the data are not sufficient for classification |
| 2-PHENOXYETHANOL | Ingestion | Multiple animal species | Not carcinogenic |
| Xylene | Dermal | Rat | Not carcinogenic |
| Xylene | Ingestion | Multiple animal species | Not carcinogenic |
| Xylene | Inhalation | Human | Some positive data exist, but the data are not sufficient for classification |
| OCTAMETHYLCYCLOTETRASILOXANE | Inhalation | Rat | Some positive data exist, but the data are not sufficient for classification |
| Siloxanes and Silicones, di-Me, reaction products with silica | Not Specified | Mouse | Some positive data exist, but the data are not sufficient for classification |
| 4-Methoxyphenol | Dermal | Multiple animal species | Not carcinogenic |
| 4-Methoxyphenol | Ingestion | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name | Route | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| PHENOXY ETHYL ACRYLATE | Ingestion | Not classified for male reproduction | Rat | NOAEL 800 mg/kg/day | 43 days |
| PHENOXY ETHYL ACRYLATE | Ingestion | Toxic to female reproduction | Rat | NOAEL 300 mg/kg/day | premating into lactation |
| PHENOXY ETHYL ACRYLATE | Ingestion | Toxic to development | Rat | NOAEL 300 mg/kg/day | premating into lactation |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Ingestion | Not classified for female reproduction | Rat | NOAEL 750 mg/kg/day | premating into lactation |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Ingestion | Not classified for male reproduction | Rat | NOAEL 750 mg/kg/day | 29 days |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during organogenesis |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | Ingestion | Not classified for female reproduction | Rat | NOAEL 300 mg/kg/day | 1 generation |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | Ingestion | Not classified for male reproduction | Rat | NOAEL 300 mg/kg/day | 1 generation |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | Ingestion | Toxic to development | Rat | NOAEL 30 mg/kg/day | 1 generation |
| 1-Propanone, 2-methyl-1-[4-(methylthio)phenyl]-2-(4-morpholinyl)- | Ingestion | Toxic to female reproduction | Rat | LOAEL 40 mg/kg/day | 1 generation |
| 1-Propanone, 2-methyl-1-[4-(methylthio)phenyl]-2-(4-morpholinyl)- | Ingestion | Toxic to development | Rat | LOAEL 40 mg/kg/day | 1 generation |
| 2-PHENOXYETHANOL | Ingestion | Not classified for female reproduction | Mouse | NOAEL 3,700 mg/kg/day | 2 generation |
| 2-PHENOXYETHANOL | Ingestion | Not classified for male reproduction | Mouse | NOAEL 3,700 mg/kg/day | 2 generation |
| 2-PHENOXYETHANOL | Dermal | Not classified for development | Rabbit | NOAEL 600 mg/kg/day | during organogenesis |
| 2-PHENOXYETHANOL | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during gestation |
| TMPEOTA | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | premating into lactation |
| TMPEOTA | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 29 days |
| TMPEOTA | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during organogenesis |
| Xylene | Inhalation | Not classified for female reproduction | Human | NOAEL Not available | occupational exposure |
| Xylene | Ingestion | Not classified for development | Mouse | NOAEL Not available | during organogenesis |
| Xylene | Inhalation | Not classified for development | Multiple animal species | NOAEL Not available | during gestation |
| OCTAMETHYLCYCLOTETRASILOXANE | Inhalation | Not classified for male reproduction | Rat | NOAEL 8.5 mg/l | 2 generation |
| OCTAMETHYLCYCLOTETRASILOXANE | Inhalation | Not classified for development | Rabbit | NOAEL 6 mg/l | during organogenesis |
| OCTAMETHYLCYCLOTETRASILOXANE | Ingestion | Not classified for development | Rabbit | NOAEL 100 mg/kg | during organogenesis |
| OCTAMETHYLCYCLOTETRASILOXANE | Inhalation | Toxic to female reproduction | Rat | NOAEL 3.6 mg/l | 2 generation |

| | | | | | |
|---|---|---|---|---|---|
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |
| 4-Methoxyphenol | Ingestion | Not classified for female reproduction | Rat | NOAEL 300 mg/kg/day | premating into lactation |
| 4-Methoxyphenol | Ingestion | Not classified for male reproduction | Rat | NOAEL 300 mg/kg/day | 28 days |
| 4-Methoxyphenol | Ingestion | Not classified for development | Rat | NOAEL 200 mg/kg/day | during gestation |

### Lactation

| Name | Route | Species | Value |
|---|---|---|---|
| Xylene | Ingestion | Mouse | Not classified for effects on or via lactation |

### Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| VINYLCAPROLACTAM | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL Not available | |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| 2-PHENOXYETHANOL | Inhalation | respiratory irritation | May cause respiratory irritation | official classification | NOAEL Not available | |
| TMPEOTA | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL not available | |
| Xylene | Inhalation | auditory system | Causes damage to organs | Rat | LOAEL 6.3 mg/l | 8 hours |
| Xylene | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Xylene | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Xylene | Inhalation | eyes | Not classified | Rat | NOAEL 3.5 mg/l | not available |
| Xylene | Inhalation | liver | Not classified | Multiple animal species | NOAEL Not available | |
| Xylene | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Multiple animal species | NOAEL Not available | |
| Xylene | Ingestion | eyes | Not classified | Rat | NOAEL 250 mg/kg | not applicable |
| 4-Methoxyphenol | 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 |
|---|---|---|---|---|---|---|
| VINYLCAPROLACTAM | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | NOAEL 0.001 mg/l | 28 days |
| VINYLCAPROLACTAM | Inhalation | blood \| liver \| kidney and/or bladder \| eyes | Not classified | Rat | NOAEL 0.18 mg/l | 90 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| VINYLCAPROLACTAM | Ingestion | liver | Not classified | Rat | NOAEL 260 mg/kg/day | 3 months |
| Carbon Black | Inhalation | pneumoconiosis | Not classified | Human | NOAEL Not available | occupational exposure |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Dermal | heart | Not classified | Rabbit | NOAEL 500 mg/kg/day | 2 weeks |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Dermal | skin | Not classified | Rabbit | LOAEL 500 mg/kg/day | 2 weeks |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Dermal | liver \| nervous system \| kidney and/or bladder \| respiratory system | Not classified | Rabbit | NOAEL 500 mg/kg/day | 2 weeks |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Ingestion | liver \| kidney and/or bladder | Not classified | Rat | NOAEL 750 mg/kg/day | 29 days |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 150 mg/kg/day | 90 days |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Ingestion | immune system | Not classified | Rat | NOAEL 750 mg/kg/day | 29 days |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Ingestion | endocrine system \| hematopoietic system \| nervous system \| eyes | Not classified | Rat | NOAEL 375 mg/kg/day | 90 days |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | Inhalation | respiratory system \| silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | Ingestion | endocrine system \| hematopoietic system \| liver \| kidney and/or bladder | Not classified | Rat | NOAEL 500 mg/kg/day | 28 days |
| 1-Propanone, 2-methyl-1-[4-(methylthio)phenyl]-2-(4-morpholinyl)- | Ingestion | peripheral nervous system \| eyes | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 75 mg/kg/day | 90 days |
| 2-PHENOXYETHANOL | Dermal | skin \| hematopoietic system \| liver \| eyes | Not classified | Rabbit | NOAEL 500 mg/kg/day | 13 weeks |
| 2-PHENOXYETHANOL | Ingestion | heart \| endocrine system \| hematopoietic system \| liver \| immune system \| nervous system \| kidney and/or bladder \| respiratory system | Not classified | Rat | NOAEL 1,514 mg/kg/day | 13 weeks |
| TMPEOTA | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 100 mg/kg/day | 29 days |
| TMPEOTA | Ingestion | endocrine system \| hematopoietic system \| liver \| immune system \| nervous system \| kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 29 days |
| Xylene | Inhalation | nervous system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.4 mg/l | 4 weeks |
| Xylene | Inhalation | auditory system | May cause damage to organs though prolonged or repeated exposure | Rat | LOAEL 7.8 mg/l | 5 days |
| Xylene | Inhalation | liver | Not classified | Multiple animal species | NOAEL Not available | |
| Xylene | Inhalation | heart \| endocrine | Not classified | Multiple | NOAEL 3.5 | 13 weeks |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | system \| gastrointestinal tract \| hematopoietic system \| muscles \| kidney and/or bladder \| respiratory system | | animal species | mg/l | |
| Xylene | Ingestion | auditory system | Not classified | Rat | NOAEL 900 mg/kg/day | 2 weeks |
| Xylene | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,500 mg/kg/day | 90 days |
| Xylene | Ingestion | liver | Not classified | Multiple animal species | NOAEL Not available | |
| Xylene | Ingestion | heart \| skin \| endocrine system \| bone, teeth, nails, and/or hair \| hematopoietic system \| immune system \| nervous system \| respiratory system | Not classified | Mouse | NOAEL 1,000 mg/kg/day | 103 weeks |
| OCTAMETHYLCYCLOTETRASILOXANE | Dermal | hematopoietic system | Not classified | Rabbit | NOAEL 960 mg/kg/day | 3 weeks |
| OCTAMETHYLCYCLOTETRASILOXANE | Inhalation | liver | Not classified | Rat | NOAEL 8.5 mg/l | 13 weeks |
| OCTAMETHYLCYCLOTETRASILOXANE | Inhalation | endocrine system \| immune system \| kidney and/or bladder | Not classified | Rat | NOAEL 8.5 mg/l | 2 generation |
| OCTAMETHYLCYCLOTETRASILOXANE | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 8.5 mg/l | 13 weeks |
| OCTAMETHYLCYCLOTETRASILOXANE | Ingestion | liver | Not classified | Rat | NOAEL 1,600 mg/kg/day | 2 weeks |
| Siloxanes and Silicones, di-Me, reaction products with silica | Inhalation | respiratory system \| silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| 4-Methoxyphenol | Ingestion | gastrointestinal tract | Not classified | Rat | LOAEL 300 mg/kg/day | 28 days |
| 4-Methoxyphenol | Ingestion | liver \| immune system | Not classified | Rat | NOAEL 300 mg/kg/day | 28 days |
| 4-Methoxyphenol | Ingestion | kidney and/or bladder | Not classified | Rat | LOAEL 300 mg/kg/day | 28 days |
| 4-Methoxyphenol | Ingestion | heart \| endocrine system \| hematopoietic system \| nervous system \| respiratory system | Not classified | Rat | NOAEL 300 mg/kg/day | 28 days |

**Aspiration Hazard**

| Name | Value |
|---|---|
| Xylene | Aspiration hazard |

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

## SECTION 12: Ecological information

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. 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. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. 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:** 1 **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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**3M Canada SDSs are available at www.3M.ca**