# 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™ Piezo Inkjet Ink 8953UV v3, Blue

**Product Identification Numbers**
75-0002-1649-1

### 1.2. Recommended use and restrictions on use

**Intended Use**
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
Acute Toxicity (oral): Category 4.
Acute Toxicity (inhalation): Category 4.
Skin Corrosion/Irritation: Category 2.
Serious Eye Damage/Irritation: Category 1.
Skin Sensitizer: Category 1A.
Carcinogenicity: Category 1B.
Reproductive Toxicity: Category 1B.
Specific Target Organ Toxicity (repeated exposure): Category 2.
Specific Target Organ Toxicity (single exposure): Category 3.

Health Hazards Not Otherwise Classified - Category 1

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

**Symbols**
Corrosion |Exclamation mark |Health Hazard |

**Pictograms**



**Hazard Statements**

Harmful if swallowed or if inhaled. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause cancer. May damage fertility or the unborn child. May cause respiratory irritation. May cause chemical gastrointestinal burns.

May cause damage to organs through prolonged or repeated exposure: gastrointestinal tract | immune system | kidney/urinary tract | skin.

**Precautionary statements**

**Prevention:**
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapours. Wash exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, face protection, and if needed, respiratory protection (see SDS Section 8).

**Response:**
IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. Get medical attention if you feel unwell. Rinse mouth. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.

**Storage:**
Store in a well-ventilated place. Keep container tightly closed. 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.

23% of the mixture consists of ingredients of unknown acute oral toxicity.
47% of the mixture consists of ingredients of unknown acute dermal toxicity.
98% of the mixture consists of ingredients of unknown acute inhalation toxicity.

## SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | C.A.S. No. | % by Wt | Common Name |
|---|---|---|---|
| Isobornyl acrylate | 5888-33-5 | 0 - 37 | 2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- |
| Isooctyl acrylate | 29590-42-9 | 10 - 30 Trade Secret * | 2-Propenoic acid, isooctyl ester |
| Tetrahydrofurfuryl acrylate | 2399-48-6 | 10 - 30 Trade Secret * | 2-Propenoic acid, (tetrahydro-2-furanyl)methyl ester |
| 2-Propenoic acid, 1,6-hexanediyl ester, polymer with 2-aminoethanol | 67906-98-3 | 5 - 10 Trade Secret * | No Data Available |
| 2-Propenoic acid, 2-hydroxyethyl ester, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-oxepanone and 2,2'-oxybis[ethanol] | 72162-39-1 | 1 - 7 Trade Secret * | No Data Available |
| HDODA | 13048-33-4 | 3 - 7 Trade Secret * | 2-Propenoic acid, 1,6-hexanediyl ester |
| 2,4,6-Trimethylbenzoyldiphenylphosphine oxide | 75980-60-8 | 1 - 5 Trade Secret * | 2,4,6-Trimethylbenzoyl diphenyl phosphine oxide; Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)- |
| Benzophenone | 119-61-9 | 1 - 5 Trade Secret * | Methanone, diphenyl- |
| Pigment blue 15 | 147-14-8 | < 5 | No Data Available |
| Polymer | Trade Secret | < 5 | Not Applicable |
| Cresol | Trade Secret | < 4 | Not Applicable |
| DECANEDIOIC ACID, BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)ESTER, REACTION PRODUCTS WITH TERT-BU HYDROPEROXIDE AND OCTANE | 129757-67-1 | < 3 | Decanedioic acid, bis(2,2,6,6-tetramethyl-4-piperidinyl) ester, reaction products with tert-bu hydroperoxide and octane |
| N,N'-BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)-1,6-HEXANEDIAMINE, POLYMERS W/MORPHOLINE-2,4,6-TRICHLORO-1,3,5-TRIAZINE RCTN PROD, METHYLATED | 193098-40-7 | < 2 | 1,6-Hexanediamine, N,N'-bis(2,2,6,6-tetramethyl-4-piperidinyl)-, polymers with morpholine-2,4,6-trichloro-1,3,5-triazine reaction products, methylated |
| Camphene | 79-92-5 | < 0.3 | Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-methylene- |

Polymer is a non-hazardous material according to WHMIS criteria. Specific information has been withheld as a trade secret.
Cresol 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 for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

**If Swallowed:**
Rinse mouth. Do not induce vomiting. Get immediate medical attention.

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

Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). Allergic skin reaction (redness, swelling, blistering, and itching). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision). 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 |
|---|---|
| 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**
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. 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. 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 in a well-ventilated place. Keep container tightly closed. 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 |
|---|---|---|---|---|
| Benzophenone | 119-61-9 | AIHA | TWA:0.5 mg/m3 | |
| HDODA | 13048-33-4 | AIHA | TWA:1 mg/m3(0.11 ppm) | Dermal Sensitizer |
| Copper, dusts and mists, as Cu | 147-14-8 | ACGIH | TWA(as Cu, fume):0.2 mg/m3;TWA(as Cu dust or mist):1 mg/m3 | |
| Tetrahydrofurfuryl acrylate | 2399-48-6 | Manufacturer determined | TWA:0.1 ppm(0.64 mg/m3);STEL:0.3 ppm(1.91 mg/m3) | Dermal Sensitizer |
| Isooctyl acrylate | 29590-42-9 | AIHA | TWA:37.5 mg/m3(5 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:
Full Face Shield
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**

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, including oily mists
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** | Blue |
| **Odour** | Slight Acrylate |
| **Odour threshold** | *No Data Available* |
| **pH** | *Not Applicable* |
| **Melting point/Freezing point** | *Not Applicable* |
| **Boiling point** | > 93.3 ºC |
| **Flash Point** | > 93.3 ºC [*Test Method:*Closed Cup] |
| **Evaporation rate** | *No Data Available* |
| **Flammability** | Not Applicable |
| **Flammable Limits(LEL)** | *No Data Available* |
| **Flammable Limits(UEL)** | *No Data Available* |
| **Vapour Pressure** | < 10 mmHg [@ 20 ºC] |
| **Relative Vapour Density** | > 1 [*Ref Std:*AIR=1] |
| **Density** | 1.04 g/ml |
| **Relative density** | 1.04 [*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** | *No Data Available* |
| **Percent volatile** | *No Data Available* |
| **VOC Less H2O & Exempt Solvents** | *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 may occur. (Upon depletion of inhibitor or exposure to heat)

**10.4. Conditions to avoid**
Light

**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:**
Harmful if inhaled. 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:**
Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching. May cause additional health effects (see below).

**Eye Contact:**
Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

**Ingestion:**
Harmful if swallowed. Gastrointestinal Corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain; nausea; vomiting; and diarrhea; blood in the feces and/or vomitus may also be seen. May cause additional health effects (see below).

**Additional Health Effects:**

**Prolonged or repeated exposure may cause target organ effects:**
Immunological Effects: Signs/symptoms may include alterations in the number of circulating immune cells, allergic skin and /or respiratory reaction, and changes in immune function. Gastrointestinal Effects: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination. Dermal Effects: Signs/symptoms may include redness, itching, acne, or bumps on the skin.

**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 |
|---|---|---|---|
| Benzophenone | 119-61-9 | 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 | Inhalation-Dust/Mist(4 hr) | | No data available; calculated ATE >1 - =5 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >300 - =2,000 mg/kg |
| Isobornyl acrylate | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Isobornyl acrylate | Ingestion | Rat | LD50 4,350 mg/kg |
| Tetrahydrofurfuryl acrylate | Ingestion | Rat | LD50 882 mg/kg |
| Isooctyl acrylate | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Isooctyl acrylate | Ingestion | Rat | LD50 > 5,000 mg/kg |
| HDODA | Dermal | Rabbit | LD50 3,636 mg/kg |
| HDODA | Ingestion | Rat | LD50 > 5,000 mg/kg |
| 2,4,6-Trimethylbenzoyldiphenylphosphine oxide | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| 2,4,6-Trimethylbenzoyldiphenylphosphine oxide | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Benzophenone | Dermal | Rabbit | LD50 3,535 mg/kg |
| Benzophenone | Ingestion | Rat | LD50 1,900 mg/kg |
| Pigment blue 15 | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Pigment blue 15 | Ingestion | Rat | LD50 10,000 mg/kg |
| DECANEDIOIC ACID, BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)ESTER, REACTION PRODUCTS WITH TERT-BU HYDROPEROXIDE AND OCTANE | Dermal | Rat | LD50 > 2,000 mg/kg |
| DECANEDIOIC ACID, BIS(2,2,6,6-TETRAMETHYL-4- | Ingestion | Rat | LD50 > 2,000 mg/kg |

| | | | |
|---|---|---|---|
| PIPERIDINYL)ESTER, REACTION PRODUCTS WITH TERT-BU HYDROPEROXIDE AND OCTANE | | | |
| N,N'-BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)-1,6-HEXANEDIAMINE, POLYMERS W/MORPHOLINE-2,4,6-TRICHLORO-1,3,5-TRIAZINE RCTN PROD, METHYLATED | Dermal | Rat | LD50 > 2,000 mg/kg |
| N,N'-BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)-1,6-HEXANEDIAMINE, POLYMERS W/MORPHOLINE-2,4,6-TRICHLORO-1,3,5-TRIAZINE RCTN PROD, METHYLATED | Ingestion | Rat | LD50 >500, <2,000 mg/kg |
| N,N'-BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)-1,6-HEXANEDIAMINE, POLYMERS W/MORPHOLINE-2,4,6-TRICHLORO-1,3,5-TRIAZINE RCTN PROD, METHYLATED | Inhalation-Dust/Mist (4 hours) | similar compounds | LC50 2.8 mg/l |
| Camphene | Dermal | Rabbit | LD50 > 2,500 mg/kg |
| Camphene | Ingestion | Rat | LD50 > 5,000 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Isobornyl acrylate | Rabbit | Minimal irritation |
| Tetrahydrofurfuryl acrylate | Rabbit | Corrosive |
| Isooctyl acrylate | In vitro data | No significant irritation |
| 2-Propenoic acid, 1,6-hexanediyl ester, polymer with 2-aminoethanol | similar compounds | Irritant |
| HDODA | Rabbit | Irritant |
| 2-Propenoic acid, 2-hydroxyethyl ester, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-oxepanone and 2,2'-oxybis[ethanol] | similar compounds | Irritant |
| 2,4,6-Trimethylbenzoyldiphenylphosphine oxide | Rabbit | No significant irritation |
| Benzophenone | Rabbit | No significant irritation |
| Pigment blue 15 | Rabbit | No significant irritation |
| DECANEDIOIC ACID, BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)ESTER, REACTION PRODUCTS WITH TERT-BU HYDROPEROXIDE AND OCTANE | Rabbit | No significant irritation |
| N,N'-BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)-1,6-HEXANEDIAMINE, POLYMERS W/MORPHOLINE-2,4,6-TRICHLORO-1,3,5-TRIAZINE RCTN PROD, METHYLATED N,N'-BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)-1,6-HEXANEDIAMINE, POLYMERS W/MORPHOLI | Rabbit | No significant irritation |
| Camphene | Rabbit | No significant irritation |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| Isobornyl acrylate | Rabbit | Mild irritant |
| Tetrahydrofurfuryl acrylate | Rabbit | Corrosive |
| Isooctyl acrylate | similar health hazards | Mild irritant |
| 2-Propenoic acid, 1,6-hexanediyl ester, polymer with 2-aminoethanol | similar compounds | Severe irritant |
| HDODA | Rabbit | Moderate irritant |
| 2-Propenoic acid, 2-hydroxyethyl ester, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-oxepanone and 2,2'-oxybis[ethanol] | similar compounds | Severe irritant |
| 2,4,6-Trimethylbenzoyldiphenylphosphine oxide | Rabbit | No significant irritation |
| Benzophenone | Rabbit | Mild irritant |
| Pigment blue 15 | Rabbit | No significant irritation |
| DECANEDIOIC ACID, BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)ESTER, REACTION PRODUCTS WITH TERT-BU HYDROPEROXIDE AND OCTANE | Rabbit | No significant irritation |
| N,N'-BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)-1,6-HEXANEDIAMINE, POLYMERS W/MORPHOLINE-2,4,6-TRICHLORO- | Rabbit | Severe irritant |

| | | |
|---|---|---|
| 1,3,5-TRIAZINE RCTN PROD, METHYLATED N,N'-BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)-1,6-HEXANEDIAMINE, POLYMERS W/MORPHOLI | | |
| Camphene | Rabbit | Moderate irritant |

**Skin Sensitization**

| Name | Species | Value |
|---|---|---|
| Isobornyl acrylate | Human and animal | Sensitizing |
| Tetrahydrofurfuryl acrylate | Professional judgement | Sensitizing |
| Isooctyl acrylate | Mouse | Sensitizing |
| 2-Propenoic acid, 1,6-hexanediyl ester, polymer with 2-aminoethanol | similar compounds | Sensitizing |
| HDODA | Guinea pig | Sensitizing |
| 2,4,6-Trimethylbenzoyldiphenylphosphine oxide | Mouse | Sensitizing |
| Benzophenone | Guinea pig | Not classified |
| Pigment blue 15 | Human | Not classified |
| DECANEDIOIC ACID, BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)ESTER, REACTION PRODUCTS WITH TERT-BU HYDROPEROXIDE AND OCTANE | Guinea pig | Not classified |
| N,N'-BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)-1,6-HEXANEDIAMINE, POLYMERS W/MORPHOLINE-2,4,6-TRICHLORO-1,3,5-TRIAZINE RCTN PROD, METHYLATED N,N'-BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)-1,6-HEXANEDIAMINE, POLYMERS W/MORPHOLI | Guinea pig | Not classified |

**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 |
|---|---|---|
| Isobornyl acrylate | In Vitro | Not mutagenic |
| Tetrahydrofurfuryl acrylate | In Vitro | Not mutagenic |
| Isooctyl acrylate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| HDODA | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 2,4,6-Trimethylbenzoyldiphenylphosphine oxide | In Vitro | Not mutagenic |
| Benzophenone | In Vitro | Not mutagenic |
| Benzophenone | In vivo | Not mutagenic |
| Pigment blue 15 | In Vitro | Not mutagenic |
| DECANEDIOIC ACID, BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)ESTER, REACTION PRODUCTS WITH TERT-BU HYDROPEROXIDE AND OCTANE | In Vitro | Not mutagenic |
| DECANEDIOIC ACID, BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)ESTER, REACTION PRODUCTS WITH TERT-BU HYDROPEROXIDE AND OCTANE | In vivo | Not mutagenic |
| N,N'-BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)-1,6-HEXANEDIAMINE, POLYMERS W/MORPHOLINE-2,4,6-TRICHLORO-1,3,5-TRIAZINE RCTN PROD, METHYLATED N,N'-BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)-1,6-HEXANEDIAMINE, POLYMERS W/MORPHOLI | In Vitro | Not mutagenic |
| Camphene | In Vitro | Not mutagenic |
| Camphene | In vivo | Not mutagenic |

**Carcinogenicity**

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

| | | | |
|---|---|---|---|
| Isooctyl acrylate | Dermal | Mouse | Not carcinogenic |
| HDODA | Dermal | Mouse | Not carcinogenic |
| Benzophenone | Dermal | Multiple animal species | Not carcinogenic |
| Benzophenone | Ingestion | Multiple animal species | Carcinogenic |
| Pigment blue 15 | Ingestion | Mouse | Not carcinogenic |

## Reproductive Toxicity

## Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|
| Isobornyl acrylate | Ingestion | Not classified for male reproduction | Rat | NOAEL 500 mg/kg/day | 31 days |
| Isobornyl acrylate | Ingestion | Not classified for female reproduction | Rat | NOAEL 100 mg/kg/day | premating into lactation |
| Isobornyl acrylate | Ingestion | Not classified for development | Rat | NOAEL 100 mg/kg/day | premating into lactation |
| Tetrahydrofurfuryl acrylate | Ingestion | Toxic to female reproduction | Rat | NOAEL 50 mg/kg/day | premating into lactation |
| Tetrahydrofurfuryl acrylate | Dermal | Toxic to male reproduction | Rat | NOAEL 100 mg/kg/day | 90 days |
| Tetrahydrofurfuryl acrylate | Ingestion | Toxic to male reproduction | Rat | NOAEL 35 mg/kg/day | 90 days |
| Tetrahydrofurfuryl acrylate | Inhalation | Toxic to male reproduction | Rat | NOAEL 0.6 mg/l | 90 days |
| Tetrahydrofurfuryl acrylate | Ingestion | Toxic to development | Rat | NOAEL 50 mg/kg/day | premating into lactation |
| Isooctyl acrylate | Dermal | Not classified for female reproduction | Rat | NOAEL 57 mg/kg/day | premating & during gestation |
| Isooctyl acrylate | Dermal | Not classified for male reproduction | Rat | NOAEL 57 mg/kg/day | premating & during gestation |
| Isooctyl acrylate | Dermal | Not classified for development | Rat | NOAEL 57 mg/kg/day | premating & during gestation |
| Isooctyl acrylate | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during organogenesis |
| HDODA | Not Specified | Not classified for development | Rat | NOAEL 750 mg/kg/day | during organogenesis |
| 2,4,6-Trimethylbenzoyldiphenylphosphine oxide | Ingestion | Toxic to development | Rat | NOAEL 150 mg/kg/day | during gestation |
| 2,4,6-Trimethylbenzoyldiphenylphosphine oxide | Ingestion | Toxic to female reproduction | Rat | NOAEL 200 mg/kg/day | premating into lactation |
| 2,4,6-Trimethylbenzoyldiphenylphosphine oxide | Ingestion | Toxic to male reproduction | Rat | NOAEL 60 mg/kg/day | 85 days |
| Benzophenone | Ingestion | Not classified for female reproduction | Rat | NOAEL 100 mg/kg/day | 2 generation |
| Benzophenone | Ingestion | Not classified for male reproduction | Rat | NOAEL 80 mg/kg/day | 2 generation |
| Benzophenone | Ingestion | Not classified for development | Rabbit | NOAEL 25 mg/kg/day | during gestation |
| Pigment blue 15 | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | premating into lactation |
| Pigment blue 15 | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 42 days |
| Pigment blue 15 | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | premating into lactation |
| DECANEDIOIC ACID, BIS(2,2,6,6-TETRAMETHYL-4- | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during gestation |

| | | | | | |
|---|---|---|---|---|---|
| PIPERIDINYL)ESTER, REACTION PRODUCTS WITH TERT-BU HYDROPEROXIDE AND OCTANE | | | | | |
| Camphene | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during organogenesis |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| Tetrahydrofurfuryl acrylate | Inhalation | respiratory irritation | May cause respiratory irritation | Human and animal | NOAEL Not available | |
| Isooctyl acrylate | Inhalation | respiratory irritation | Not classified | Human | NOAEL Not available | occupational exposure |
| Isooctyl acrylate | Ingestion | central nervous system depression | Not classified | Rat | NOAEL 5,000 mg/kg | |
| 2-Propenoic acid, 1,6-hexanediyl ester, polymer with 2-aminoethanol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| HDODA | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| 2-Propenoic acid, 2-hydroxyethyl ester, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-oxepanone and 2,2'-oxybis[ethanol] | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| N,N'-BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)-1,6-HEXANEDIAMINE, POLYMERS W/MORPHOLINE-2,4,6-TRICHLORO-1,3,5-TRIAZINE RCTN PROD, METHYLATED N,N'-BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)-1,6-HEXANEDIAMINE, POLYMERS W/MORPHOLI | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Camphene | 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 |
|---|---|---|---|---|---|---|
| Isobornyl acrylate | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 500 mg/kg/day | 31 days |
| Isobornyl acrylate | Ingestion | immune system | Not classified | Rat | NOAEL 500 mg/kg/day | 31 days |
| Isobornyl acrylate | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 500 mg/kg/day | 31 days |
| Isobornyl acrylate | Ingestion | heart | Not classified | Rat | NOAEL 500 mg/kg/day | 31 days |
| Isobornyl acrylate | Ingestion | endocrine system | Not classified | Rat | NOAEL 500 mg/kg/day | 31 days |
| Isobornyl acrylate | Ingestion | hematopoietic | Not classified | Rat | NOAEL 500 | 31 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | system | | | mg/kg/day | |
| Isobornyl acrylate | Ingestion | liver | Not classified | Rat | NOAEL 500 mg/kg/day | 31 days |
| Isobornyl acrylate | Ingestion | nervous system | Not classified | Rat | NOAEL 500 mg/kg/day | 31 days |
| Isobornyl acrylate | Ingestion | respiratory system | Not classified | Rat | NOAEL 500 mg/kg/day | 31 days |
| Isooctyl acrylate | Dermal | heart | Not classified | Rat | NOAEL 57 mg/kg/day | premating & during gestation |
| Isooctyl acrylate | Dermal | endocrine system | Not classified | Rat | NOAEL 57 mg/kg/day | premating & during gestation |
| Isooctyl acrylate | Dermal | hematopoietic system | Not classified | Rat | NOAEL 57 mg/kg/day | premating & during gestation |
| Isooctyl acrylate | Dermal | liver | Not classified | Rat | NOAEL 57 mg/kg/day | premating & during gestation |
| Isooctyl acrylate | Dermal | immune system | Not classified | Rat | NOAEL 57 mg/kg/day | premating & during gestation |
| Isooctyl acrylate | Dermal | nervous system | Not classified | Rat | NOAEL 57 mg/kg/day | premating & during gestation |
| Isooctyl acrylate | Dermal | kidney and/or bladder | Not classified | Rat | NOAEL 57 mg/kg/day | premating & during gestation |
| Isooctyl acrylate | Dermal | respiratory system | Not classified | Rat | NOAEL 57 mg/kg/day | premating & during gestation |
| Isooctyl acrylate | Ingestion | endocrine system | Not classified | Rat | NOAEL 600 mg/kg/day | 90 days |
| Isooctyl acrylate | Ingestion | liver | Not classified | Rat | NOAEL 600 mg/kg/day | 90 days |
| Isooctyl acrylate | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 600 mg/kg/day | 90 days |
| Isooctyl acrylate | Ingestion | heart | Not classified | Rat | NOAEL 600 mg/kg/day | 90 days |
| Isooctyl acrylate | Ingestion | bone, teeth, nails, and/or hair | Not classified | Rat | NOAEL 600 mg/kg/day | 90 days |
| Isooctyl acrylate | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 600 mg/kg/day | 90 days |
| Isooctyl acrylate | Ingestion | immune system | Not classified | Rat | NOAEL 600 mg/kg/day | 90 days |
| Isooctyl acrylate | Ingestion | muscles | Not classified | Rat | NOAEL 600 mg/kg/day | 90 days |
| Isooctyl acrylate | Ingestion | nervous system | Not classified | Rat | NOAEL 600 mg/kg/day | 90 days |
| Isooctyl acrylate | Ingestion | eyes | Not classified | Rat | NOAEL 600 mg/kg/day | 90 days |
| Isooctyl acrylate | Ingestion | respiratory system | Not classified | Rat | NOAEL 600 mg/kg/day | 90 days |
| Isooctyl acrylate | Ingestion | vascular system | Not classified | Rat | NOAEL 600 mg/kg/day | 90 days |
| HDODA | Dermal | skin | May cause damage to organs though prolonged or repeated exposure | Mouse | LOAEL 70 mg/kg/day | 80 weeks |
| 2,4,6-Trimethylbenzoyldiphenyl phosphine oxide | Ingestion | skin | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |
| 2,4,6-Trimethylbenzoyldiphenyl phosphine oxide | Ingestion | blood | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |
| 2,4,6-Trimethylbenzoyldiphenyl phosphine oxide | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2,4,6-Trimethylbenzoyldiphenyl phosphine oxide | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |
| 2,4,6-Trimethylbenzoyldiphenyl phosphine oxide | Ingestion | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |
| Benzophenone | Ingestion | kidney and/or bladder | May cause damage to organs though prolonged or repeated exposure | Rat | LOAEL 75 mg/kg/day | 14 weeks |
| Benzophenone | Ingestion | heart | Not classified | Rat | NOAEL 850 mg/kg/day | 14 weeks |
| Benzophenone | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 850 mg/kg/day | 14 weeks |
| Benzophenone | Ingestion | liver | Not classified | Rat | NOAEL 850 mg/kg/day | 14 weeks |
| Benzophenone | Ingestion | immune system | Not classified | Rat | NOAEL 850 mg/kg/day | 14 weeks |
| Benzophenone | Ingestion | endocrine system | Not classified | Rat | NOAEL 850 mg/kg/day | 14 weeks |
| Benzophenone | Ingestion | bone, teeth, nails, and/or hair | Not classified | Rat | NOAEL 850 mg/kg/day | 14 weeks |
| Benzophenone | Ingestion | nervous system | Not classified | Rat | NOAEL 850 mg/kg/day | 14 weeks |
| Benzophenone | Ingestion | eyes | Not classified | Rat | NOAEL 850 mg/kg/day | 14 weeks |
| Benzophenone | Ingestion | respiratory system | Not classified | Rat | NOAEL 850 mg/kg/day | 14 weeks |
| Pigment blue 15 | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Pigment blue 15 | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Pigment blue 15 | Ingestion | respiratory system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Pigment blue 15 | Ingestion | kidney and/or bladder | Not classified | Multiple animal species | NOAEL Not available | not available |
| DECANEDIOIC ACID, BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)ESTER, REACTION PRODUCTS WITH TERT-BU HYDROPEROXIDE AND OCTANE | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| DECANEDIOIC ACID, BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)ESTER, REACTION PRODUCTS WITH TERT-BU HYDROPEROXIDE AND OCTANE | Ingestion | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| DECANEDIOIC ACID, BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)ESTER, REACTION PRODUCTS WITH TERT-BU HYDROPEROXIDE AND OCTANE | Ingestion | respiratory system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| DECANEDIOIC ACID, BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)ESTER, REACTION PRODUCTS | Ingestion | heart | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |

| | | | | | | |
|---|---|---|---|---|---|---|
| WITH TERT-BU HYDROPEROXIDE AND OCTANE | | | | | | |
| DECANEDIOIC ACID, BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)ESTER, REACTION PRODUCTS WITH TERT-BU HYDROPEROXIDE AND OCTANE | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| DECANEDIOIC ACID, BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)ESTER, REACTION PRODUCTS WITH TERT-BU HYDROPEROXIDE AND OCTANE | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| DECANEDIOIC ACID, BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)ESTER, REACTION PRODUCTS WITH TERT-BU HYDROPEROXIDE AND OCTANE | Ingestion | bone, teeth, nails, and/or hair | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| DECANEDIOIC ACID, BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)ESTER, REACTION PRODUCTS WITH TERT-BU HYDROPEROXIDE AND OCTANE | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| DECANEDIOIC ACID, BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)ESTER, REACTION PRODUCTS WITH TERT-BU HYDROPEROXIDE AND OCTANE | Ingestion | immune system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| DECANEDIOIC ACID, BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)ESTER, REACTION PRODUCTS WITH TERT-BU HYDROPEROXIDE AND OCTANE | Ingestion | eyes | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| DECANEDIOIC ACID, BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)ESTER, REACTION PRODUCTS WITH TERT-BU HYDROPEROXIDE AND OCTANE | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| N,N'-BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)-1,6-HEXANEDIAMINE, POLYMERS W/MORPHOLINE-2,4,6-TRICHLORO-1,3,5-TRIAZINE RCTN PROD, METHYLATED N,N'- | Ingestion | gastrointestinal tract | May cause damage to organs though prolonged or repeated exposure | Rat | NOAEL 15 mg/kg/day | 28 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)-1,6-HEXANEDIAMINE, POLYMERS W/MORPHOLI | | | | | | |
| N,N'-BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)-1,6-HEXANEDIAMINE, POLYMERS W/MORPHOLINE-2,4,6-TRICHLORO-1,3,5-TRIAZINE RCTN PROD, METHYLATED N,N'-BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)-1,6-HEXANEDIAMINE, POLYMERS W/MORPHOLI | Ingestion | immune system | May cause damage to organs though prolonged or repeated exposure | Rat | NOAEL 15 mg/kg/day | 28 days |
| Camphene | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Camphene | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Camphene | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |

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

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

## SECTION 12: Ecological information

No data available.

## SECTION 13: Disposal considerations

**13.1. Disposal methods**

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

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. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional 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:** 3 **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**