



## 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™ Process Colour 895I Magenta

#### Product Identification Numbers

42-0019-9651-3      75-0301-1096-1

### 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

Flammable Liquid: Category 3.

Serious Eye Damage/Irritation: Category 1.

Skin Sensitizer: Category 1A.

Carcinogenicity: Category 2.

Reproductive Toxicity: Category 1B.

### 2.2. Label elements

#### Signal word

Danger

**Symbols**

Flame | Corrosion | Exclamation mark | Health Hazard |

**Pictograms****Hazard Statements**

Flammable liquid and vapour.

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

**Precautionary statements****Prevention:**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing vapour or spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, face protection, and respiratory protection.

**Response:**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. 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. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

**Storage:**

Store in a well-ventilated place. Keep cool. 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.

15% of the mixture consists of ingredients of unknown acute oral toxicity.

15% of the mixture consists of ingredients of unknown acute dermal toxicity.

59% 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   |
|---|------------|---------|---|
| Dipropylene glycol methyl ether acetate                     | 88917-22-0 | 30 - 60 | Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate (9CI)                           |
| 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2- | 28262-63-7 | 10 - 30 | 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate and methyl 2- |

|  |              |                       |  |
|--|--------------|-----------------------|--|
| propenoate and methyl 2-methyl-2-propenoate                          |              |                       | methyl-2-propenoate  |
| Acrylic polymers   | Trade Secret | 10 - 30               | Not Applicable   |
| 1-Methoxy-2-propyl acetate   | 108-65-6     | 5 - 10                | 2-Propanol, 1-methoxy-, acetate  |
| Cyclohexanone  | 108-94-1     | 5 - 10 Trade Secret * | Cyclohexanone  |
| Organic pigment  | Trade Secret | 1 - 5                 | Not Applicable   |
| Vinyl polymer  | Trade Secret | 1 - 5                 | Not Applicable   |
| 3-dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl)-2,5-pyrrolidinedione | 79720-19-7   | < 0.6                 | 2,5-Pyrrolidinedione, 3-dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl)- |
| 2,3-epoxypropyl neodecanoate   | 26761-45-5   | < 0.4                 | Neodecanoic acid, oxiranylmethyl ester                                 |
| Ethylbenzene   | 100-41-4     | < 0.3                 | Benzene, ethyl-  |
| n-Butyl methacrylate   | 97-88-1      | < 0.3                 | 2-Propenoic acid, 2-methyl-, butyl ester                               |
| Toluene  | 108-88-3     | < 0.2                 | No Data Available  |

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

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

Vinyl 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 for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately 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). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

### 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 flammable liquids such as dry chemical or carbon dioxide 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. Exposure to extreme heat can give rise to thermal decomposition.

#### Hazardous Decomposition or By-Products

| <u>Substance</u>   | <u>Condition</u>  |
|--------------------|-------------------|
| Hydrocarbons       | During Combustion |
| Carbon monoxide    | During Combustion |
| Carbon dioxide     | During Combustion |
| Hydrogen Chloride  | During Combustion |
| Hydrogen Fluoride  | During Combustion |
| Oxides of Nitrogen | 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. 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. Warning! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode.

### 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. Cover spill area with a fire extinguishing foam that is resistant to polar solvents. 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 using non-sparking tools. Place in a metal 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

Do not breathe thermal decomposition products. For industrial or professional use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. 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.) Wear low static or properly grounded shoes. Use personal protective equipment (gloves, respirators, etc.) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

## 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from acids. 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            |
|----------------------------|------------|--------|------------------------|--------------------------------|
| Ethylbenzene               | 100-41-4   | ACGIH  | TWA:20 ppm             |                                |
| 1-Methoxy-2-propyl acetate | 108-65-6   | AIHA   | TWA:50 ppm             |                                |
| Toluene                    | 108-88-3   | ACGIH  | TWA:20 ppm             |                                |
| Cyclohexanone              | 108-94-1   | ACGIH  | TWA:20 ppm;STEL:50 ppm | Danger of cutaneous absorption |

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

For those situations where the material might be exposed to extreme overheating due to misuse or equipment failure, use with appropriate local exhaust ventilation sufficient to maintain levels of thermal decomposition products below their exposure guidelines. 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. Use explosion-proof ventilation 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 (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:

For those situations where the material might be exposed to extreme overheating due to misuse or equipment failure, use a positive pressure supplied-air respirator.

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

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

|   |   |
|---|---|
| Physical state                              | Liquid                                      |
| Colour                                      | Magenta                                     |
| Odour                                       | Moderate Solvent                            |
| Odour threshold                             | No Data Available                           |
| pH  | Not Applicable                              |
| Melting point/Freezing point                | Not Applicable                              |
| Boiling point                               | >=140 °C                                    |
| Flash Point                                 | 42.2 °C [Test Method: Tagliabue Closed Cup] |
| Evaporation rate                            | <=0.4 [Ref Std:BUOAC=1]                     |
| Flammability                                | Flammable Liquid: Category 3.               |
| Flammable Limits(LEL)                       | 1.1 % volume                                |
| Flammable Limits(UEL)                       | 8.6 % volume                                |
| Vapour Pressure                             | <=493.3 Pa [@ 20 °C ]                       |
| Relative Vapour Density                     | No Data Available                           |
| Density                                     | 0.95 g/ml                                   |
| Relative density                            | 0.95 [Ref Std:WATER=1]                      |
| Water solubility                            | No Data Available                           |
| 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                         | 1,053 mm <sup>2</sup> /sec                  |
| Volatile Organic Compounds                  | 600 - 800 g/l [Details: As Packaged.]       |
| Percent volatile                            | 65 - 75 %                                   |
| VOC Less H <sub>2</sub> O & 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 will not occur.

**10.4. Conditions to avoid**

Sparks and/or flames

**10.5. Incompatible materials**

Strong acids

Strong oxidizing agents

**10.6. Hazardous decomposition products**

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known.      |                  |

Refer to section 5.2 for hazardous decomposition products during combustion.

Extreme heat arising from situations such as misuse or equipment failure can generate hydrogen fluoride as a decomposition product.

## 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:**

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:**

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

**Additional Health Effects:****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                                  |
|--------------------|----------|-------------------------------|---|
| Butyl Methacrylate | 97-88-1  | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Ethylbenzene       | 100-41-4 | 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  | Inhalation-Vapor(4 hr)         |                   | No data available; calculated ATE >50 mg/l     |
| Overall product  | Ingestion                      |                   | No data available; calculated ATE >5,000 mg/kg |
| Dipropylene glycol methyl ether acetate  | Dermal                         | Rat               | LD50 > 2,000 mg/kg                             |
| Dipropylene glycol methyl ether acetate  | Inhalation-Dust/Mist (4 hours) | Rat               | LC50 > 5.7 mg/l                                |
| Dipropylene glycol methyl ether acetate  | Ingestion                      | Rat               | LD50 > 5,000 mg/kg                             |
| 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate | Dermal                         |                   | LD50 estimated to be > 5,000 mg/kg             |
| 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate | Ingestion                      |                   | LD50 estimated to be 2,000 - 5,000 mg/kg       |
| 1-Methoxy-2-propyl acetate   | Dermal                         | Rabbit            | LD50 > 5,000 mg/kg                             |
| 1-Methoxy-2-propyl acetate   | Inhalation-Vapor (4 hours)     | Rat               | LC50 > 28.8 mg/l                               |
| 1-Methoxy-2-propyl acetate   | Ingestion                      | Rat               | LD50 8,532 mg/kg                               |
| Cyclohexanone  | Dermal                         | Rabbit            | LD50 >794, <3160 mg/kg                         |
| Cyclohexanone  | Inhalation-Vapor (4 hours)     | Rat               | LC50 > 6.2 mg/l                                |
| Cyclohexanone  | Ingestion                      | Rat               | LD50 1,296 mg/kg                               |
| Organic pigment  | Ingestion                      | Rat               | LD50 > 11,000 mg/kg                            |
| Organic pigment  | Dermal                         | similar compounds | LD50 > 2,000 mg/kg                             |
| Organic pigment  | Inhalation-Dust/Mist (4 hours) | similar compounds | LC50 > 3.1 mg/l                                |
| Vinyl polymer  | Dermal                         | Rabbit            | LD50 > 8,000 mg/kg                             |
| Vinyl polymer  | Ingestion                      | Rat               | LD50 > 8,000 mg/kg                             |
| 3-dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl) -2,5-pyrrolidinedione                                  | Dermal                         | Rabbit            | LD50 > 2,000 mg/kg                             |
| 3-dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl) -2,5-pyrrolidinedione                                  | Inhalation-Dust/Mist (4 hours) | Rat               | LC50 > 5 mg/l                                  |
| 3-dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl) -2,5-pyrrolidinedione                                  | Ingestion                      | Rat               | LD50 > 2,000 mg/kg                             |
| Ethylbenzene   | Dermal                         | Rabbit            | LD50 15,433 mg/kg                              |
| Ethylbenzene   | Inhalation-Vapor (4 hours)     | Rat               | LC50 17.4 mg/l                                 |
| Ethylbenzene   | Ingestion                      | Rat               | LD50 4,769 mg/kg                               |
| 2,3-epoxypropyl neodecanoate   | Dermal                         | Rat               | LD50 > 2,000 mg/kg                             |
| 2,3-epoxypropyl neodecanoate   | Ingestion                      | Rat               | LD50 > 2,000 mg/kg                             |
| n-Butyl methacrylate   | Dermal                         | Rabbit            | LD50 > 2,000 mg/kg                             |
| n-Butyl methacrylate   | Inhalation-Dust/Mist (4 hours) | Rat               | LC50 > 27 mg/l                                 |
| n-Butyl methacrylate   | Ingestion                      | Rat               | LD50 > 2,000 mg/kg                             |

|         |                            |     |                   |
|---------|----------------------------|-----|-------------------|
| Toluene | Dermal                     | Rat | LD50 12,000 mg/kg |
| Toluene | Inhalation-Vapor (4 hours) | Rat | LC50 30 mg/l      |
| Toluene | Ingestion                  | Rat | LD50 5,550 mg/kg  |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name  | Species                | Value                     |
|---|------------------------|---------------------------|
| Dipropylene glycol methyl ether acetate                               | Rabbit                 | No significant irritation |
| 1-Methoxy-2-propyl acetate  | Rabbit                 | No significant irritation |
| Cyclohexanone   | Rabbit                 | Irritant                  |
| Organic pigment   | Rabbit                 | No significant irritation |
| Vinyl polymer   | Professional judgement | No significant irritation |
| 3-dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl) -2,5-pyrrolidinedione | Rabbit                 | Corrosive                 |
| Ethylbenzene  | Rabbit                 | Mild irritant             |
| 2,3-epoxypropyl neodecanoate  | Rabbit                 | No significant irritation |
| n-Butyl methacrylate  | Rabbit                 | Irritant                  |
| Toluene   | Rabbit                 | Irritant                  |

### Serious Eye Damage/Irritation

| Name  | Species                | Value                     |
|---|------------------------|---------------------------|
| Dipropylene glycol methyl ether acetate                               | Rabbit                 | No significant irritation |
| 1-Methoxy-2-propyl acetate  | Rabbit                 | Mild irritant             |
| Cyclohexanone   | In vitro data          | Corrosive                 |
| Organic pigment   | Rabbit                 | No significant irritation |
| Vinyl polymer   | Professional judgement | No significant irritation |
| 3-dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl) -2,5-pyrrolidinedione | Rabbit                 | Corrosive                 |
| Ethylbenzene  | Rabbit                 | Moderate irritant         |
| 2,3-epoxypropyl neodecanoate  | Rabbit                 | No significant irritation |
| n-Butyl methacrylate  | Rabbit                 | Mild irritant             |
| Toluene   | Rabbit                 | Moderate irritant         |

### Skin Sensitization

| Name                                    | Species                 | Value          |
|---|-------------------------|----------------|
| Dipropylene glycol methyl ether acetate | Guinea pig              | Not classified |
| 1-Methoxy-2-propyl acetate              | Guinea pig              | Not classified |
| Cyclohexanone                           | Guinea pig              | Not classified |
| Organic pigment                         | Multiple animal species | Not classified |
| Ethylbenzene                            | Human                   | Not classified |
| 2,3-epoxypropyl neodecanoate            | Guinea pig              | Sensitizing    |
| n-Butyl methacrylate                    | Guinea pig              | Sensitizing    |
| Toluene                                 | 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  |
|--|----------|--|
| Dipropylene glycol methyl ether acetate                              | In Vitro | Not mutagenic  |
| Dipropylene glycol methyl ether acetate                              | In vivo  | Not mutagenic  |
| 1-Methoxy-2-propyl acetate   | In Vitro | Not mutagenic  |
| Cyclohexanone  | In Vitro | Not mutagenic  |
| Cyclohexanone  | In vivo  | Not mutagenic  |
| Organic pigment  | In Vitro | Not mutagenic  |
| 3-dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl)-2,5-pyrrolidinedione | In Vitro | Not mutagenic  |
| Ethylbenzene   | In vivo  | Not mutagenic  |
| Ethylbenzene   | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 2,3-epoxypropyl neodecanoate   | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 2,3-epoxypropyl neodecanoate   | In vivo  | Mutagenic  |
| n-Butyl methacrylate   | In Vitro | Not mutagenic  |
| n-Butyl methacrylate   | In vivo  | Not mutagenic  |
| Toluene  | In Vitro | Not mutagenic  |
| Toluene  | In vivo  | Not mutagenic  |

**Carcinogenicity**

| Name                 | Route      | Species                 | Value  |
|----------------------|------------|-------------------------|--|
| Cyclohexanone        | Ingestion  | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Ethylbenzene         | Inhalation | Multiple animal species | Carcinogenic   |
| n-Butyl methacrylate | Inhalation | Multiple animal species | Carcinogenic   |
| Toluene              | Dermal     | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Toluene              | Ingestion  | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| Toluene              | Inhalation | Mouse                   | 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              |
|----------------------------|------------|--|---------|-----------------------|--------------------------------|
| 1-Methoxy-2-propyl acetate | Ingestion  | Not classified for female reproduction | Rat     | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| 1-Methoxy-2-propyl acetate | Ingestion  | Not classified for male reproduction   | Rat     | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| 1-Methoxy-2-propyl acetate | Ingestion  | Not classified for development         | Rat     | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| 1-Methoxy-2-propyl acetate | Inhalation | Not classified for development         | Rat     | NOAEL 21.6 mg/l       | during organogenesis           |
| Cyclohexanone              | Inhalation | Not classified for female reproduction | Rat     | NOAEL 4 mg/l          | 2 generation                   |
| Cyclohexanone              | Ingestion  | Not classified for development         | Rabbit  | NOAEL 500 mg/kg/day   | during gestation               |
| Cyclohexanone              | Inhalation | Not classified for male reproduction   | Rat     | NOAEL 2 mg/l          | 2 generation                   |
| Cyclohexanone              | Inhalation | Not classified for development         | Rat     | NOAEL 2.6 mg/l        | during gestation               |

|                              |            |  |        |                       |                               |
|------------------------------|------------|--|--------|-----------------------|-------------------------------|
| Organic pigment              | Ingestion  | Not classified for female reproduction | Rat    | NOAEL 1,000 mg/kg/day | pre mating into lactation     |
| Organic pigment              | Ingestion  | Not classified for male reproduction   | Rat    | NOAEL 1,000 mg/kg/day | 31 days                       |
| Organic pigment              | Ingestion  | Not classified for development         | Rat    | NOAEL 1,000 mg/kg/day | pre mating into lactation     |
| Ethylbenzene                 | Inhalation | Not classified for development         | Rat    | NOAEL 4.3 mg/l        | pre mating & during gestation |
| 2,3-epoxypropyl neodecanoate | Ingestion  | Not classified for female reproduction | Rat    | NOAEL 300 mg/kg/day   | 2 generation                  |
| 2,3-epoxypropyl neodecanoate | Ingestion  | Not classified for male reproduction   | Rat    | NOAEL 300 mg/kg/day   | 2 generation                  |
| 2,3-epoxypropyl neodecanoate | Ingestion  | Toxic to development                   | Rat    | NOAEL 50 mg/kg/day    | 2 generation                  |
| n-Butyl methacrylate         | Ingestion  | Not classified for male reproduction   | Rat    | NOAEL 1,000 mg/kg/day | 44 days                       |
| n-Butyl methacrylate         | Ingestion  | Not classified for female reproduction | Rat    | NOAEL 300 mg/kg/day   | pre mating & during gestation |
| n-Butyl methacrylate         | Ingestion  | Not classified for development         | Rabbit | NOAEL 300 mg/kg/day   | during gestation              |
| n-Butyl methacrylate         | Inhalation | Not classified for development         | Rat    | NOAEL 1.8 mg/l        | during gestation              |
| Toluene                      | Inhalation | Not classified for female reproduction | Human  | NOAEL Not available   | occupational exposure         |
| Toluene                      | Inhalation | Not classified for male reproduction   | Rat    | NOAEL 2.3 mg/l        | 1 generation                  |
| Toluene                      | Ingestion  | Toxic to development                   | Rat    | LOAEL 520 mg/kg/day   | during gestation              |
| Toluene                      | Inhalation | Toxic to development                   | Human  | NOAEL Not available   | poisoning and/or abuse        |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name   | Route      | Target Organ(s)                   | Value  | Species                | Test result         | Exposure Duration |
|--|------------|-----------------------------------|--|------------------------|---------------------|-------------------|
| 1-Methoxy-2-propyl acetate   | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification |                        | NOAEL Not available |                   |
| 1-Methoxy-2-propyl acetate   | Ingestion  | central nervous system depression | Some positive data exist, but the data are not sufficient for classification | Rat                    | NOAEL not available |                   |
| Cyclohexanone  | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Guinea pig             | LOAEL 16.1 mg/l     | 6 hours           |
| Cyclohexanone  | Inhalation | respiratory irritation            | May cause respiratory irritation   | Human                  | NOAEL Not available |                   |
| Cyclohexanone  | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement | NOAEL Not available |                   |
| 3-dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl)-2,5-pyrrolidinedione | Inhalation | respiratory irritation            | May cause respiratory irritation   | similar health hazards | NOAEL Not available |                   |
| Ethylbenzene   | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human                  | NOAEL Not available |                   |
| Ethylbenzene   | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human and animal       | NOAEL Not available |                   |
| n-Butyl methacrylate   | Inhalation | respiratory irritation            | May cause respiratory irritation   |                        | NOAEL Not available |                   |
| Toluene  | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human                  | NOAEL Not available |                   |
| Toluene  | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for                | Human                  | NOAEL Not available |                   |

|         |            |                                   | classification                    |       |                     |                        |
|---------|------------|-----------------------------------|-----------------------------------|-------|---------------------|------------------------|
| Toluene | Inhalation | immune system                     | Not classified                    | Mouse | NOAEL 0.004 mg/l    | 3 hours                |
| Toluene | Ingestion  | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |

**Specific Target Organ Toxicity - repeated exposure**

| Name                                    | Route      | Target Organ(s)  | Value  | Species                 | Test result           | Exposure Duration |
|---|------------|--|--|-------------------------|-----------------------|-------------------|
| Dipropylene glycol methyl ether acetate | Ingestion  | liver   heart   endocrine system   hematopoietic system   kidney and/or bladder  | Not classified   | Rat                     | NOAEL 1,000 mg/kg/day | 4 weeks           |
| 1-Methoxy-2-propyl acetate              | Inhalation | kidney and/or bladder  | Not classified   | Rat                     | NOAEL 16.2 mg/l       | 9 days            |
| 1-Methoxy-2-propyl acetate              | Inhalation | olfactory system   | Not classified   | Mouse                   | LOAEL 1.62 mg/l       | 9 days            |
| 1-Methoxy-2-propyl acetate              | Inhalation | blood  | Not classified   | Multiple animal species | NOAEL 16.2 mg/l       | 9 days            |
| 1-Methoxy-2-propyl acetate              | Ingestion  | endocrine system   | Not classified   | Rat                     | NOAEL 1,000 mg/kg/day | 44 days           |
| Cyclohexanone                           | Inhalation | liver   kidney and/or bladder   heart   skin   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles   nervous system   eyes   respiratory system   vascular system | Not classified   | Rat                     | NOAEL 2.5 mg/l        | 13 weeks          |
| Cyclohexanone                           | Ingestion  | hematopoietic system   eyes   kidney and/or bladder  | Not classified   | Rat                     | NOAEL 407 mg/kg/day   | 3 months          |
| Ethylbenzene                            | Inhalation | kidney and/or bladder  | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 1.1 mg/l        | 2 years           |
| Ethylbenzene                            | Inhalation | liver  | Some positive data exist, but the data are not sufficient for classification | Mouse                   | NOAEL 1.1 mg/l        | 103 weeks         |
| Ethylbenzene                            | Inhalation | hematopoietic system   | Not classified   | Rat                     | NOAEL 3.4 mg/l        | 28 days           |
| Ethylbenzene                            | Inhalation | auditory system  | Not classified   | Rat                     | NOAEL 2.4 mg/l        | 5 days            |
| Ethylbenzene                            | Inhalation | endocrine system   | Not classified   | Mouse                   | NOAEL 3.3 mg/l        | 103 weeks         |
| Ethylbenzene                            | Inhalation | gastrointestinal tract   | Not classified   | Rat                     | NOAEL 3.3 mg/l        | 2 years           |
| Ethylbenzene                            | Inhalation | bone, teeth, nails, and/or hair   muscles  | Not classified   | Multiple animal species | NOAEL 4.2 mg/l        | 90 days           |
| Ethylbenzene                            | Inhalation | heart   immune system   respiratory system   | Not classified   | Multiple animal species | NOAEL 3.3 mg/l        | 2 years           |
| Ethylbenzene                            | Ingestion  | liver   kidney and/or bladder  | Not classified   | Rat                     | NOAEL 680 mg/kg/day   | 6 months          |
| 2,3-epoxypropyl neodecanoate            | Ingestion  | endocrine system   hematopoietic system   liver  | Not classified   | Rat                     | NOAEL 1,000 mg/kg/day | 90 days           |
| 2,3-epoxypropyl                         | Ingestion  | kidney and/or  | Not classified   | Rat                     | NOAEL 100             | 90 days           |

| neodecanoate                 |            | bladder  |  |                         | mg/kg/day             |                        |
|------------------------------|------------|--|--|-------------------------|-----------------------|------------------------|
| 2,3-epoxypropyl neodecanoate | Ingestion  | heart   skin   gastrointestinal tract   bone, teeth, nails, and/or hair   immune system   nervous system   eyes   respiratory system   vascular system | Not classified   | Rat                     | NOAEL 1,000 mg/kg/day | 90 days                |
| n-Butyl methacrylate         | Inhalation | kidney and/or bladder  | Not classified   | Rat                     | NOAEL 11 mg/l         | 28 days                |
| n-Butyl methacrylate         | Inhalation | olfactory system   | Not classified   | Rat                     | NOAEL 1.8 mg/l        | 28 days                |
| n-Butyl methacrylate         | Inhalation | heart   endocrine system   hematopoietic system   liver   nervous system   respiratory system  | Not classified   | Rat                     | NOAEL 11 mg/l         | 28 days                |
| n-Butyl methacrylate         | Ingestion  | olfactory system   | Not classified   | Rat                     | NOAEL 60 mg/kg/day    | 90 days                |
| n-Butyl methacrylate         | Ingestion  | endocrine system   hematopoietic system   liver   nervous system   kidney and/or bladder   heart   immune system                                       | Not classified   | Rat                     | NOAEL 360 mg/kg/day   | 90 days                |
| Toluene                      | Inhalation | auditory system   nervous system   eyes   olfactory system   | Causes damage to organs through prolonged or repeated exposure               | Human                   | NOAEL Not available   | poisoning and/or abuse |
| Toluene                      | Inhalation | respiratory system   | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 2.3 mg/l        | 15 months              |
| Toluene                      | Inhalation | heart   liver   kidney and/or bladder  | Not classified   | Rat                     | NOAEL 11.3 mg/l       | 15 weeks               |
| Toluene                      | Inhalation | endocrine system   | Not classified   | Rat                     | NOAEL 1.1 mg/l        | 4 weeks                |
| Toluene                      | Inhalation | immune system  | Not classified   | Mouse                   | NOAEL Not available   | 20 days                |
| Toluene                      | Inhalation | bone, teeth, nails, and/or hair  | Not classified   | Mouse                   | NOAEL 1.1 mg/l        | 8 weeks                |
| Toluene                      | Inhalation | hematopoietic system   vascular system   | Not classified   | Human                   | NOAEL Not available   | occupational exposure  |
| Toluene                      | Inhalation | gastrointestinal tract   | Not classified   | Multiple animal species | NOAEL 11.3 mg/l       | 15 weeks               |
| Toluene                      | Ingestion  | nervous system   | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 625 mg/kg/day   | 13 weeks               |
| Toluene                      | Ingestion  | heart  | Not classified   | Rat                     | NOAEL 2,500 mg/kg/day | 13 weeks               |
| Toluene                      | Ingestion  | liver   kidney and/or bladder  | Not classified   | Multiple animal species | NOAEL 2,500 mg/kg/day | 13 weeks               |
| Toluene                      | Ingestion  | hematopoietic system   | Not classified   | Mouse                   | NOAEL 600 mg/kg/day   | 14 days                |
| Toluene                      | Ingestion  | endocrine system   | Not classified   | Mouse                   | NOAEL 105 mg/kg/day   | 28 days                |
| Toluene                      | Ingestion  | immune system  | Not classified   | Mouse                   | NOAEL 105 mg/kg/day   | 4 weeks                |

### Aspiration Hazard

| Name         | Value             |
|--------------|-------------------|
| Ethylbenzene | Aspiration hazard |
| Toluene      | 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. 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 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: 2 Instability: 0 Special Hazards: None**

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|                        |            |                         |            |
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