



## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Process Color 885I Black

#### Product Identification Numbers

| ID Number      | UPC | ID Number      | UPC |
|----------------|-----|----------------|-----|
| 42-0019-9656-2 |     | 75-0301-1089-6 |     |

7000004861

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Ink

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Transportation Safety Division          |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)         |

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

### SECTION 2: Hazard identification

#### 2.1. Hazard classification

Flammable Liquid: Category 3.

Serious Eye Damage/Irritation: Category 1.

Carcinogenicity: Category 2.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Flame | Corrosion | Health Hazard |

##### Pictograms

**Hazard Statements**

Flammable liquid and vapor.

Causes serious eye damage.  
Suspected of causing cancer.

**Precautionary Statements****Prevention:**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Ground/bond container and receiving equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Keep container tightly closed.  
Use explosion-proof electrical/ventilating/lighting equipment.  
Wear protective gloves and eye/face protection.

**Response:**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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/physician.  
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/container in accordance with applicable local/regional/national/international regulations.

12% of the mixture consists of ingredients of unknown acute oral toxicity.  
12% 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**

| Ingredient   | C.A.S. No.    | % by Wt |
|--|---------------|---------|
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate  | 88917-22-0    | 30 - 60 |
| Acrylic polymers   | Trade Secret* | 10 - 30 |
| 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate | 28262-63-7    | 10 - 30 |
| 1-Methoxy-2-propyl acetate   | 108-65-6      | 5 - 10  |
| Cyclohexanone  | 108-94-1      | 5 - 10  |
| Vinyl polymer (New Jersey Trade Secret Registry #  | Trade Secret* | 3 - 7   |

|   |           |       |
|---|-----------|-------|
| 04499600-5238P)   |           |       |
| Carbon black  | 1333-86-4 | 1 - 5 |
| (3',4'-Epoxy cyclohexylmethyl) 3,4-epoxy cyclohexanecarboxylate | 2386-87-0 | < 0.5 |
| Ethylbenzene  | 100-41-4  | < 0.2 |
| n-Butyl methacrylate  | 97-88-1   | < 0.2 |

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation:**

Remove person to fresh air. If you feel unwell, get medical attention.

**Skin Contact:**

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

**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

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. 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**

Hydrocarbons  
Carbon monoxide  
Carbon dioxide  
Hydrogen Chloride  
Hydrogen Fluoride

**Condition**

During Combustion  
During Combustion  
During Combustion  
During Combustion  
During Combustion

### 5.3. Special protective 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. 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 vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 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

For industrial/occupational 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. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. 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.

## 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          |
|----------------------------|------------|--------|---------------------------------|------------------------------|
| 1-Methoxy-2-propyl acetate |            | AIHA   | TWA:50 ppm                      |                              |
| Carbon black               |            | ACGIH  | TWA(inhalable fraction):3 mg/m3 | A3: Confirmed animal carcin. |
| Carbon black               |            | OSHA   | TWA:3.5 mg/m3                   |                              |
| Cyclohexanone              |            | ACGIH  | TWA:20 ppm;STEL:50 ppm          | A3: Confirmed animal         |

|               |  |       |                        |   |
|---------------|--|-------|------------------------|---|
|               |  |       |                        | carcin., Danger of cutaneous absorption |
| Cyclohexanone |  | OSHA  | TWA:200 mg/m3(50 ppm)  |   |
| Ethylbenzene  |  | ACGIH | TWA:20 ppm             | A3: Confirmed animal carcin.            |
| Ethylbenzene  |  | OSHA  | TWA:435 mg/m3(100 ppm) |   |

ACGIH : American Conference of Governmental Industrial Hygienists  
 AIHA : American Industrial Hygiene Association  
 CMRG : Chemical Manufacturer's Recommended Guidelines  
 OSHA : United States Department of Labor - Occupational Safety and Health Administration  
 TWA: Time-Weighted-Average  
 STEL: Short Term Exposure Limit  
 CEIL: Ceiling

**8.2. Exposure controls**

**8.2.1. Engineering controls**

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment. 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

**Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

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

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

**SECTION 9: Physical and chemical properties**

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

**Appearance**

**Physical state** Liquid  
**Color** Black

**Specific Physical Form:**

**Odor** Liquid  
 Sweet Ether

|   |   |
|---|---|
| Odor threshold                          | No Data Available   |
| pH                                      | Not Applicable  |
| Melting point                           | Not Applicable  |
| Boiling Point                           | >=284 °F  |
| Flash Point                             | 108 °F [Test Method: Tagliabue Closed Cup]                |
| Evaporation rate                        | <=0.4 [Ref Std: BUOAC=1]                                  |
| Flammability (solid, gas)               | Not Applicable  |
| Flammable Limits(LEL)                   | 1.1 % volume  |
| Flammable Limits(UEL)                   | 8.6 % volume  |
| Vapor Pressure                          | <=3.7 mmHg [@ 20 °C]                                      |
| Vapor Density                           | No Data Available   |
| Density                                 | 0.95 g/ml   |
| Specific Gravity                        | 0.95 [Ref Std: WATER=1]                                   |
| Solubility In Water                     | 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   |
| Viscosity                               | 1,000 - 1,200 centipoise [Details: DTM-300 (#3 @ 30 rpm)] |
| Molecular weight                        | Not Applicable  |
| Volatile Organic Compounds              | 600 - 800 g/l [Details: As Packaged.]                     |
| Percent volatile                        | 65.00 - 75.00 %   |
| VOC Less H2O & Exempt Solvents          | No Data Available   |

## 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

#### Substance

None known.

#### Condition

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:

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:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

##### 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:

##### Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

| Ingredient   | CAS No.   | Class Description             | Regulation                                  |
|--------------|-----------|-------------------------------|---|
| Carbon black | 1333-86-4 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| 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 |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate  | Dermal                         | Rat     | LD50 > 2,000 mg/kg                             |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate  | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 5.7 mg/l                                |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, 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       |
| Vinyl polymer (New Jersey Trade Secret Registry # 04499600-5238P) | Dermal                         | Rabbit | LD50 > 8,000 mg/kg     |
| Vinyl polymer (New Jersey Trade Secret Registry # 04499600-5238P) | Ingestion                      | Rat    | LD50 > 8,000 mg/kg     |
| Carbon black  | Dermal                         | Rabbit | LD50 > 3,000 mg/kg     |
| Carbon black  | Ingestion                      | Rat    | LD50 > 8,000 mg/kg     |
| (3',4'-Epoxy cyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate    | Dermal                         | Rabbit | LD50 > 23,400 mg/kg    |
| (3',4'-Epoxy cyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate    | Ingestion                      | Rat    | LD50 5,000 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       |
| 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     |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name  | Species                | Value                     |
|---|------------------------|---------------------------|
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate               | Rabbit                 | No significant irritation |
| 1-Methoxy-2-propyl acetate  | Rabbit                 | No significant irritation |
| Cyclohexanone   | Rabbit                 | Irritant                  |
| Vinyl polymer (New Jersey Trade Secret Registry # 04499600-5238P) | Professional judgement | No significant irritation |
| Carbon black  | Rabbit                 | No significant irritation |
| (3',4'-Epoxy cyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate    | Rabbit                 | Minimal irritation        |
| Ethylbenzene  | Rabbit                 | Mild irritant             |
| n-Butyl methacrylate  | Rabbit                 | Irritant                  |

**Serious Eye Damage/Irritation**

| Name  | Species                | Value                     |
|---|------------------------|---------------------------|
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate               | Rabbit                 | No significant irritation |
| 1-Methoxy-2-propyl acetate  | Rabbit                 | Mild irritant             |
| Cyclohexanone   | In vitro data          | Corrosive                 |
| Vinyl polymer (New Jersey Trade Secret Registry # 04499600-5238P) | Professional judgement | No significant irritation |
| Carbon black  | Rabbit                 | No significant irritation |
| (3',4'-Epoxy cyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate    | Rabbit                 | Mild irritant             |
| Ethylbenzene  | Rabbit                 | Moderate irritant         |
| n-Butyl methacrylate  | Rabbit                 | Mild irritant             |

**Skin Sensitization**

| Name  | Species    | Value          |
|---|------------|----------------|
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate | Guinea pig | Not classified |



|   |            |                |
|---|------------|----------------|
| 1-Methoxy-2-propyl acetate                                      | Guinea pig | Not classified |
| Cyclohexanone   | Guinea pig | Not classified |
| (3',4'-Epoxy cyclohexylmethyl) 3,4-epoxy cyclohexanecarboxylate | Guinea pig | Sensitizing    |
| Ethylbenzene  | Human      | Not classified |
| n-Butyl methacrylate  | Guinea pig | Sensitizing    |

### Respiratory Sensitization

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

### Germ Cell Mutagenicity

| Name  | Route    | Value  |
|---|----------|--|
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate             | In Vitro | Not mutagenic  |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate             | In vivo  | Not mutagenic  |
| 1-Methoxy-2-propyl acetate                                      | In Vitro | Not mutagenic  |
| Cyclohexanone   | In vivo  | Not mutagenic  |
| Cyclohexanone   | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Carbon black  | In Vitro | Not mutagenic  |
| Carbon black  | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| (3',4'-Epoxy cyclohexylmethyl) 3,4-epoxy cyclohexanecarboxylate | In vivo  | Not mutagenic  |
| (3',4'-Epoxy cyclohexylmethyl) 3,4-epoxy cyclohexanecarboxylate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Ethylbenzene  | In vivo  | Not mutagenic  |
| Ethylbenzene  | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| n-Butyl methacrylate  | In Vitro | Not mutagenic  |
| n-Butyl methacrylate  | 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 |
| Carbon black  | Dermal     | Mouse                   | Not carcinogenic   |
| Carbon black  | Ingestion  | Mouse                   | Not carcinogenic   |
| Carbon black  | Inhalation | Rat                     | Carcinogenic   |
| (3',4'-Epoxy cyclohexylmethyl) 3,4-epoxy cyclohexanecarboxylate | Dermal     | Mouse                   | Not carcinogenic   |
| Ethylbenzene  | Inhalation | Multiple animal species | Carcinogenic   |

### 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   | Inhalation | Not classified for male reproduction   | Rat    | NOAEL 2 mg/l          | 2 generation                   |
| Cyclohexanone   | Ingestion  | Not classified for development         | Mouse  | LOAEL 1,100 mg/kg/day | during organogenesis           |
| Cyclohexanone   | Inhalation | Not classified for development         | Rat    | NOAEL 2 mg/l          | 2 generation                   |
| (3',4'-Epoxy)cyclohexylmethyl 3,4-epoxycyclohexanecarboxylate | Ingestion  | Not classified for development         | Rat    | NOAEL 125 mg/kg/day   | during gestation               |
| Ethylbenzene  | Inhalation | Not classified for development         | Rat    | NOAEL 4.3 mg/l        | prematuring & during gestation |
| 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   | prematuring & 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               |

### 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 |                   |
| Cyclohexanone              | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Guinea pig             | LOAEL 16.1 mg/l     | 6 hours           |
| Cyclohexanone              | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                  | NOAEL Not available |                   |
| Cyclohexanone              | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement | 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 |                   |

#### Specific Target Organ Toxicity - repeated exposure

| Name  | Route      | Target Organ(s)   | Value          | Species                 | Test Result           | Exposure Duration |
|---|------------|---|----------------|-------------------------|-----------------------|-------------------|
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, 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           | 44 days           |

|   |            |  |  |                         | mg/kg/day             |                       |
|---|------------|--|--|-------------------------|-----------------------|-----------------------|
| Cyclohexanone   | Inhalation | liver   kidney and/or bladder  | Not classified   | Rabbit                  | NOAEL 0.76 mg/l       | 50 days               |
| Cyclohexanone   | Ingestion  | liver  | Not classified   | Mouse                   | NOAEL 4,800 mg/kg/day | 90 days               |
| Carbon black  | Inhalation | pneumoconiosis   | Not classified   | Human                   | NOAEL Not available   | occupational exposure |
| (3',4'-Epoxy)cyclohexylmethyl 3,4-epoxycyclohexanecarboxylate | Ingestion  | olfactory system   | May cause damage to organs though prolonged or repeated exposure             | Rat                     | NOAEL 5 mg/kg/day     | 90 days               |
| (3',4'-Epoxy)cyclohexylmethyl 3,4-epoxycyclohexanecarboxylate | Ingestion  | liver   kidney and/or bladder   hematopoietic system   | Not classified   | Rat                     | NOAEL 500 mg/kg/day   | 90 days               |
| (3',4'-Epoxy)cyclohexylmethyl 3,4-epoxycyclohexanecarboxylate | Ingestion  | endocrine system   respiratory system  | Not classified   | Rat                     | NOAEL 1,113 mg/kg/day | 14 days               |
| 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              |
| 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               |

**Aspiration Hazard**

| Name | Value |
|------|-------|
|------|-------|

|              |                   |
|--------------|-------------------|
| Ethylbenzene | 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**

**Ecotoxicological information**

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

**Chemical fate information**

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

**SECTION 13: Disposal considerations**

**13.1. Disposal methods**

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

Incinerate in a permitted waste incineration facility. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. As a disposal alternative, utilize an acceptable permitted waste disposal 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.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

**SECTION 14: Transport Information**

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

**SECTION 15: Regulatory information**

**15.1. US Federal Regulations**

Contact 3M for more information.

**EPCRA 311/312 Hazard Classifications:**

|   |
|---|
| <b>Physical Hazards</b>                         |
| Flammable (gases, aerosols, liquids, or solids) |

|                                      |
|--------------------------------------|
| <b>Health Hazards</b>                |
| Carcinogenicity                      |
| Serious eye damage or eye irritation |

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

| <u>Ingredient</u> | <u>C.A.S. No</u> | <u>% by Wt</u> |
|-------------------|------------------|----------------|
| Ethylbenzene      | 100-41-4         | < 0.2          |

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

**This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.**

## SECTION 16: Other information

#### NFPA Hazard Classification

**Health:** 3 **Flammability:** 2 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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