



## Safety Data Sheet

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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Screen Printing UV Ink Series 9800CL Screen Print Clear

#### Product Identification Numbers

ID Number	UPC	ID Number	UPC
75-3470-6922-3			

7000056126

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

##### Recommended use

Screen Printing Ink, Ink

#### 1.3. Supplier's details

<b>MANUFACTURER:</b>	3M
<b>DIVISION:</b>	Commercial Branding and Transportation 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

Skin Corrosion/Irritation: Category 2.  
 Serious Eye Damage/Irritation: Category 2A.  
 Skin Sensitizer: Category 1.  
 Reproductive Toxicity: Category 2.  
 Specific Target Organ Toxicity (repeated exposure): Category 1.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Exclamation mark |Health Hazard |

### Pictograms



### Hazard Statements

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

Causes damage to organs through prolonged or repeated exposure: respiratory system.  
 May cause damage to organs through prolonged or repeated exposure: skin.

### Precautionary statements

#### Prevention:

Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Do not breathe vapors.  
 Wash exposed skin thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Wear protective gloves and eye protection.

#### Response:

IF ON SKIN: Wash with plenty of soap and water.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 IF exposed or concerned: Get medical attention.  
 Get medical attention if you feel unwell.  
 If eye irritation persists or if skin irritation or rash occurs: Get medical attention.  
 Take off contaminated clothing and wash it before reuse.

#### Storage:

Store locked up.

#### Disposal:

Dispose of contents and container in accordance with applicable local, regional, national, and international regulations.

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

## SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Aliphatic Urethane Acrylate	Trade Secret*	40 - 50
PHENOXY ETHYL ACRYLATE	48145-04-6	10 - 30 Trade Secret *
VINYLCAPROLACTAM	2235-00-9	7 - 13 Trade Secret *

DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE	7328-17-8	5 - 10 Trade Secret *
1,6-Hexanediol diacrylate	13048-33-4	1 - 5 Trade Secret *
BENZENE, (1-METHYLETHENYL)-, HOMOPOLYMER, AR-(2-HYDROXY-2-METHYL-1-OXOPROPYL) DERIVS	163702-01-0	1 - 5 Trade Secret *
Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate	41556-26-7	1 - 5 Trade Secret *
Trimethylolpropane ethoxylate triacrylate	28961-43-5	1 - 5 Trade Secret *
Acrylic Copolymer	Trade Secret*	1 - 5
Foam control - silicone based	Trade Secret*	1 - 2
2-HYDROXY-2-METHYL-1-PHENYL-1-PROPANONE	7473-98-5	0.5 - 1.5 Trade Secret *
.ALPHA.,.ALPHA.',.ALPHA."-1,2,3-PROPANETRIYLTRIS[POLYPROPYLENE GLYCOL ACRYLATE]	52408-84-1	0.1 - 1 Trade Secret *
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	82919-37-7	0.1 - 1 Trade Secret *

\*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. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

#### If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

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

Allergic skin reaction (redness, swelling, blistering, and itching). Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

### 5.2. Special hazards arising from the substance or mixture

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

### Hazardous Decomposition or By-Products

#### Substance

#### Condition

Formaldehyde  
Carbon monoxide  
Carbon dioxide  
Oxides of Nitrogen

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. 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. 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/occupational 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/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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

### 7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from oxidizing agents.

## 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
1,6-Hexanediol diacrylate	13048-33-4	AIHA	TWA:1 mg/m <sup>3</sup> (0.11 ppm)	Dermal Sensitizer
VINYLCAPROLACTAM	2235-00-9	Manufacturer determined	TWA(8 hours):0.1 ppm(0.57 mg/m <sup>3</sup> )	

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**

No engineering controls required.

**8.2.2. Personal protective equipment (PPE)****Eye/face protection**

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Safety Glasses with side shields

Indirect Vented Goggles

**Skin/hand protection**

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

**Respiratory protection**

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

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
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Specific Physical Form:	Liquid
Color	Colorless
Odor	Slight Acrylate
Odor threshold	No Data Available
pH	Not Applicable
Melting point/Freezing point	Not Applicable
Boiling point/Initial boiling point/Boiling range	> 148.9 °C
Flash Point	> 93.3 °C [Test Method:Pensky-Martens Closed Cup]
Evaporation rate	< 1 [Ref Std:BUOAC=1]
Flammability	Not Applicable
Flammable Limits(LEL)	No Data Available
Flammable Limits(UEL)	No Data Available
Vapor Pressure	< 1.2 mmHg [@ 20 °C]
Relative Vapor Density	No Data Available
Density	Approximately 1.3 g/ml
Relative Density	Approximately 1.3 [Ref Std:WATER=1]
Water solubility	Negligible
Solubility- non-water	No Data Available
Partition coefficient: n-octanol/ water	No Data Available
Autoignition temperature	No Data Available
Decomposition temperature	No Data Available
Kinematic Viscosity	No Data Available
Volatile Organic Compounds	1 g/l
Percent volatile	1 - 5 % weight
VOC Less H2O & Exempt Solvents	1 g/l

Particle Characteristics	Not Applicable
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## 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 with exposure to heat.

### 10.4. Conditions to avoid

Sparks and/or flames  
Heat

### 10.5. Incompatible materials

Strong oxidizing agents

### 10.6. Hazardous decomposition products

#### Substance

None known.

#### Condition

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:

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:

May be harmful in contact with skin.

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:

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

##### Ingestion:

May be harmful if swallowed.

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause additional health effects (see below).

#### Additional Health Effects:

##### Prolonged or repeated exposure may cause target organ effects:

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

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.

#### 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
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Overall product	Dermal		No data available; calculated ATE >2,000 - =5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >2,000 - =5,000 mg/kg
PHENOXY ETHYL ACRYLATE	Dermal	Rat	LD50 > 2,000 mg/kg
PHENOXY ETHYL ACRYLATE	Ingestion	Rat	LD50 > 5,000 mg/kg
VINYLCAPROLACTAM	Dermal	Rabbit	LD50 1,700 mg/kg
VINYLCAPROLACTAM	Ingestion	Rat	LD50 1,049 mg/kg
DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE	Dermal		LD50 estimated to be 1,000 - 2,000 mg/kg
DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE	Ingestion	Rat	LD50 1,860 mg/kg
Trimethylolpropane ethoxylate triacrylate	Dermal	Rabbit	LD50 > 13,200 mg/kg
Trimethylolpropane ethoxylate triacrylate	Ingestion	Rat	LD50 > 2,000 mg/kg
1,6-Hexanediol diacrylate	Dermal	Rabbit	LD50 3,636 mg/kg
1,6-Hexanediol diacrylate	Ingestion	Rat	LD50 > 5,000 mg/kg
BENZENE, (1-METHYLETHENYL)-, HOMOPOLYMER, AR-(2-HYDROXY-2-METHYL-1-OXOPROPYL) DERIVS	Dermal	Rat	LD50 > 2,000 mg/kg
BENZENE, (1-METHYLETHENYL)-, HOMOPOLYMER, AR-(2-HYDROXY-2-METHYL-1-OXOPROPYL) DERIVS	Ingestion	Rat	LD50 > 5,000 mg/kg
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Dermal	Professional judgement	LD50 estimated to be 2,000 - 5,000 mg/kg
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Ingestion	Rat	LD50 3,125 mg/kg
2-HYDROXY-2-METHYL-1-PHENYL-1-PROPANONE	Dermal	Rat	LD50 6,929 mg/kg
2-HYDROXY-2-METHYL-1-PHENYL-1-PROPANONE	Ingestion	Rat	LD50 1,694 mg/kg
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Dermal	Professional judgement	LD50 estimated to be 2,000 - 5,000 mg/kg
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Ingestion	Rat	LD50 3,125 mg/kg
.ALPHA.,.ALPHA.',.ALPHA."-1,2,3-PROPANETRIYLTRIS[POLYPROPYLENE GLYCOL ACRYLATE]	Dermal	Rabbit	LD50 > 2,000 mg/kg
.ALPHA.,.ALPHA.',.ALPHA."-1,2,3-PROPANETRIYLTRIS[POLYPROPYLENE GLYCOL ACRYLATE]	Ingestion	Rat	LD50 > 2,000 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
PHENOXY ETHYL ACRYLATE	Rabbit	No significant irritation
VINYLCAPROLACTAM	Rabbit	Minimal irritation
DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE	Rabbit	Irritant
Trimethylolpropane ethoxylate triacrylate	Rabbit	Minimal irritation
1,6-Hexanediol diacrylate	Rabbit	Irritant
BENZENE, (1-METHYLETHENYL)-, HOMOPOLYMER, AR-(2-HYDROXY-2-METHYL-1-OXOPROPYL) DERIVS	Rabbit	No significant irritation
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Rabbit	Minimal irritation
2-HYDROXY-2-METHYL-1-PHENYL-1-PROPANONE	Rabbit	No significant irritation
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Rabbit	Minimal irritation
.ALPHA.,.ALPHA.',.ALPHA."-1,2,3-PROPANETRIYLTRIS[POLYPROPYLENE GLYCOL ACRYLATE]	Rabbit	Minimal irritation

**Serious Eye Damage/Irritation**

Name	Species	Value
PHENOXY ETHYL ACRYLATE	Rabbit	No significant irritation
VINYLCAPROLACTAM	Rabbit	Severe irritant
DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE	Rabbit	Severe irritant
Trimethylolpropane ethoxylate triacrylate	Rabbit	Severe irritant
1,6-Hexanediol diacrylate	Rabbit	Moderate irritant
BENZENE, (1-METHYLETHENYL)-, HOMOPOLYMER, AR-(2-HYDROXY-	Rabbit	Mild irritant



2-METHYL-1-OXOPROPYL) DERIVS		
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Rabbit	Mild irritant
2-HYDROXY-2-METHYL-1-PHENYL-1-PROPANONE	Rabbit	Mild irritant
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Rabbit	Mild irritant
.ALPHA,..ALPHA.',.ALPHA."-1,2,3-PROPANETRIYLTRIS[POLYPROPYLENE GLYCOL ACRYLATE]	Rabbit	Severe irritant

### Skin Sensitization

Name	Species	Value
PHENOXY ETHYL ACRYLATE	Guinea pig	Sensitizing
VINYLCAPROLACTAM	Mouse	Sensitizing
DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE	Guinea pig	Sensitizing
Trimethylolpropane ethoxylate triacrylate	Guinea pig	Sensitizing
1,6-Hexanediol diacrylate	Guinea pig	Sensitizing
BENZENE, (1-METHYLETHENYL)-, HOMOPOLYMER, AR-(2-HYDROXY-2-METHYL-1-OXOPROPYL) DERIVS	Guinea pig	Not classified
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Guinea pig	Sensitizing
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Guinea pig	Sensitizing
.ALPHA,..ALPHA.',.ALPHA."-1,2,3-PROPANETRIYLTRIS[POLYPROPYLENE GLYCOL ACRYLATE]	Mouse	Sensitizing

### Respiratory Sensitization

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

### Germ Cell Mutagenicity

Name	Route	Value
VINYLCAPROLACTAM	In Vitro	Not mutagenic
Trimethylolpropane ethoxylate triacrylate	In vivo	Not mutagenic
Trimethylolpropane ethoxylate triacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
1,6-Hexanediol diacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
BENZENE, (1-METHYLETHENYL)-, HOMOPOLYMER, AR-(2-HYDROXY-2-METHYL-1-OXOPROPYL) DERIVS	In Vitro	Not mutagenic
BENZENE, (1-METHYLETHENYL)-, HOMOPOLYMER, AR-(2-HYDROXY-2-METHYL-1-OXOPROPYL) DERIVS	In vivo	Not mutagenic
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	In vivo	Not mutagenic
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	In Vitro	Some positive data exist, but the data are not sufficient for classification
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	In vivo	Not mutagenic
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	In Vitro	Some positive data exist, but the data are not sufficient for classification
.ALPHA,..ALPHA.',.ALPHA."-1,2,3-PROPANETRIYLTRIS[POLYPROPYLENE GLYCOL ACRYLATE]	In Vitro	Some positive data exist, but the data are not sufficient for classification

### Carcinogenicity

Name	Route	Species	Value
1,6-Hexanediol diacrylate	Dermal	Mouse	Not carcinogenic

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
PHENOXY ETHYL ACRYLATE	Ingestion	Not classified for male reproduction	Rat	NOAEL 800 mg/kg/day	43 days

PHENOXY ETHYL ACRYLATE	Ingestion	Toxic to female reproduction	Rat	NOAEL 300 mg/kg/day	premat ing into lactation
PHENOXY ETHYL ACRYLATE	Ingestion	Toxic to development	Rat	NOAEL 300 mg/kg/day	premat ing into lactation
Trimethylolpropane ethoxylate triacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premat ing into lactation
Trimethylolpropane ethoxylate triacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	29 days
Trimethylolpropane ethoxylate triacrylate	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during organogenesi s
1,6-Hexanediol diacrylate	Not Specified	Not classified for development	Rat	NOAEL 750 mg/kg/day	during organogenesi s
BENZENE, (1-METHYLETHENYL)-, HOMOPOLYMER, AR-(2-HYDROXY-2-METHYL-1-OXOPROPYL) DERIVS	Ingestion	Not classified for male reproduction	Rat	NOAEL 280 mg/kg/day	1 generation
BENZENE, (1-METHYLETHENYL)-, HOMOPOLYMER, AR-(2-HYDROXY-2-METHYL-1-OXOPROPYL) DERIVS	Ingestion	Not classified for development	Rat	NOAEL 250 mg/kg/day	during gestation
BENZENE, (1-METHYLETHENYL)-, HOMOPOLYMER, AR-(2-HYDROXY-2-METHYL-1-OXOPROPYL) DERIVS	Ingestion	Toxic to female reproduction	Rat	LOAEL 8 mg/kg/day	1 generation
Bis(1,2,2,6,6-pentamethyl-4-piperidiny l) sebacate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,493 mg/kg/day	29 days
Bis(1,2,2,6,6-pentamethyl-4-piperidiny l) sebacate	Ingestion	Not classified for development	Rat	NOAEL 209 mg/kg/day	premat ing into lactation
Bis(1,2,2,6,6-pentamethyl-4-piperidiny l) sebacate	Ingestion	Toxic to female reproduction	Rat	NOAEL 804 mg/kg/day	premat ing into lactation
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINY L SEBACATE	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,493 mg/kg/day	29 days
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINY L SEBACATE	Ingestion	Not classified for development	Rat	NOAEL 209 mg/kg/day	premat ing into lactation
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINY L SEBACATE	Ingestion	Toxic to female reproduction	Rat	NOAEL 804 mg/kg/day	premat ing into lactation
.ALPHA.,.ALPHA.',.ALPHA."-1,2,3-PROPANETRIYLTRIS[POLYPROPYLEN E GLYCOL ACRYLATE]	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	premat ing into lactation
.ALPHA.,.ALPHA.',.ALPHA."-1,2,3-PROPANETRIYLTRIS[POLYPROPYLEN E GLYCOL ACRYLATE]	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	29 days
.ALPHA.,.ALPHA.',.ALPHA."-1,2,3-PROPANETRIYLTRIS[POLYPROPYLEN E GLYCOL ACRYLATE]	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during organogenesi s

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
VINYLCAPROLACTAM	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	
Trimethylolpropane ethoxylate triacrylate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
1,6-Hexanediol diacrylate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
.ALPHA.,.ALPHA.',.ALPHA."-1,2,3-PROPANETRIYLTRIS[POLYPROPYLENE GLYCOL ACRYLATE]	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
VINYLCAPROLACTAM	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 0.001 mg/l	28 days
VINYLCAPROLACTAM	Inhalation	blood	Not classified	Rat	NOAEL 0.18 mg/l	90 days
VINYLCAPROLACTAM	Inhalation	liver	Not classified	Rat	NOAEL 0.18 mg/l	90 days
VINYLCAPROLACTAM	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.18 mg/l	90 days
VINYLCAPROLACTAM	Inhalation	eyes	Not classified	Rat	NOAEL 0.18 mg/l	90 days
VINYLCAPROLACTAM	Ingestion	liver	Not classified	Rat	NOAEL 260 mg/kg/day	3 months
Trimethylolpropane ethoxylate triacrylate	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 100 mg/kg/day	29 days
Trimethylolpropane ethoxylate triacrylate	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
Trimethylolpropane ethoxylate triacrylate	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
Trimethylolpropane ethoxylate triacrylate	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
Trimethylolpropane ethoxylate triacrylate	Ingestion	immune system	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
Trimethylolpropane ethoxylate triacrylate	Ingestion	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
Trimethylolpropane ethoxylate triacrylate	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
1,6-Hexanediol diacrylate	Dermal	skin	May cause damage to organs though prolonged or repeated exposure	Mouse	LOAEL 70 mg/kg/day	80 weeks
BENZENE, (1-METHYLETHENYL)-, HOMOPOLYMER, AR-(2-HYDROXY-2-METHYL-1-OXOPROPYL) DERIVS	Ingestion	liver	Not classified	Rat	NOAEL 100 mg/kg/day	4 weeks
BENZENE, (1-METHYLETHENYL)-, HOMOPOLYMER, AR-(2-HYDROXY-2-METHYL-1-OXOPROPYL) DERIVS	Ingestion	heart	Not classified	Rat	NOAEL 100 mg/kg/day	4 weeks
BENZENE, (1-METHYLETHENYL)-, HOMOPOLYMER, AR-(2-HYDROXY-2-METHYL-1-OXOPROPYL) DERIVS	Ingestion	endocrine system	Not classified	Rat	NOAEL 100 mg/kg/day	4 weeks
BENZENE, (1-METHYLETHENYL)-, HOMOPOLYMER, AR-(2-HYDROXY-2-METHYL-1-OXOPROPYL) DERIVS	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 100 mg/kg/day	4 weeks
BENZENE, (1-METHYLETHENYL)-, HOMOPOLYMER, AR-(2-HYDROXY-2-METHYL-1-OXOPROPYL) DERIVS	Ingestion	nervous system	Not classified	Rat	NOAEL 100 mg/kg/day	4 weeks
BENZENE, (1-	Ingestion	kidney and/or	Not classified	Rat	NOAEL 100	4 weeks

METHYLETHENYL)-, HOMOPOLYMER, AR-(2-HYDROXY-2-METHYL-1-OXOPROPYL) DERIVS		bladder			mg/kg/day	
BENZENE, (1-METHYLETHENYL)-, HOMOPOLYMER, AR-(2-HYDROXY-2-METHYL-1-OXOPROPYL) DERIVS	Ingestion	respiratory system	Not classified	Rat	NOAEL 100 mg/kg/day	4 weeks
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Ingestion	eyes	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 300 mg/kg/day	28 days
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Ingestion	liver	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Ingestion	immune system	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Ingestion	heart	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Ingestion	nervous system	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Ingestion	eyes	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 300 mg/kg/day	28 days
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Ingestion	liver	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Ingestion	immune system	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Ingestion	heart	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Ingestion	nervous system	Not classified	Rat	NOAEL 1,493	29 days

PIPERIDINYL SEBACATE					mg/kg/day	
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
.ALPHA,..ALPHA',.ALPHA."-1,2,3-PROPANETRIYLTRIS[P OLYPROPYLENE GLYCOL ACRYLATE]	Dermal	heart	Not classified	Rabbit	NOAEL 500 mg/kg/day	2 weeks
.ALPHA,..ALPHA',.ALPHA."-1,2,3-PROPANETRIYLTRIS[P OLYPROPYLENE GLYCOL ACRYLATE]	Dermal	skin	Not classified	Rabbit	LOAEL 500 mg/kg/day	2 weeks
.ALPHA,..ALPHA',.ALPHA."-1,2,3-PROPANETRIYLTRIS[P OLYPROPYLENE GLYCOL ACRYLATE]	Dermal	liver	Not classified	Rabbit	NOAEL 500 mg/kg/day	2 weeks
.ALPHA,..ALPHA',.ALPHA."-1,2,3-PROPANETRIYLTRIS[P OLYPROPYLENE GLYCOL ACRYLATE]	Dermal	nervous system	Not classified	Rabbit	NOAEL 500 mg/kg/day	2 weeks
.ALPHA,..ALPHA',.ALPHA."-1,2,3-PROPANETRIYLTRIS[P OLYPROPYLENE GLYCOL ACRYLATE]	Dermal	kidney and/or bladder	Not classified	Rabbit	NOAEL 500 mg/kg/day	2 weeks
.ALPHA,..ALPHA',.ALPHA."-1,2,3-PROPANETRIYLTRIS[P OLYPROPYLENE GLYCOL ACRYLATE]	Dermal	respiratory system	Not classified	Rabbit	NOAEL 500 mg/kg/day	2 weeks
.ALPHA,..ALPHA',.ALPHA."-1,2,3-PROPANETRIYLTRIS[P OLYPROPYLENE GLYCOL ACRYLATE]	Ingestion	liver	Not classified	Rat	NOAEL 750 mg/kg/day	29 days
.ALPHA,..ALPHA',.ALPHA."-1,2,3-PROPANETRIYLTRIS[P OLYPROPYLENE GLYCOL ACRYLATE]	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 750 mg/kg/day	29 days
.ALPHA,..ALPHA',.ALPHA."-1,2,3-PROPANETRIYLTRIS[P OLYPROPYLENE GLYCOL ACRYLATE]	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
.ALPHA,..ALPHA',.ALPHA."-1,2,3-PROPANETRIYLTRIS[P OLYPROPYLENE GLYCOL ACRYLATE]	Ingestion	immune system	Not classified	Rat	NOAEL 750 mg/kg/day	29 days
.ALPHA,..ALPHA',.ALPHA."-1,2,3-PROPANETRIYLTRIS[P OLYPROPYLENE GLYCOL ACRYLATE]	Ingestion	endocrine system	Not classified	Rat	NOAEL 375 mg/kg/day	90 days
.ALPHA,..ALPHA',.ALPHA."-1,2,3-PROPANETRIYLTRIS[P OLYPROPYLENE GLYCOL ACRYLATE]	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 375 mg/kg/day	90 days
.ALPHA,..ALPHA',.ALPHA."-1,2,3-PROPANETRIYLTRIS[P OLYPROPYLENE GLYCOL ACRYLATE]	Ingestion	nervous system	Not classified	Rat	NOAEL 375 mg/kg/day	90 days

PROPANETRIYLTRIS[P OLYPROPYLENE GLYCOL ACRYLATE]						
.ALPHA,..ALPHA.',.ALP HA."-1,2,3- PROPANETRIYLTRIS[P OLYPROPYLENE GLYCOL ACRYLATE]	Ingestion	eyes	Not classified	Rat	NOAEL 375 mg/kg/day	90 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****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.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

**SECTION 14: Transport Information**

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

**SECTION 15: Regulatory information****15.1. US Federal Regulations**

Contact 3M for more information.

**EPCRA 311/312 Hazard Classifications:****Physical Hazards**

Not Applicable.

**Health Hazards**

Reproductive toxicity

Respiratory or Skin Sensitization
Serious eye damage or eye irritation
Skin Corrosion or Irritation
Specific target organ toxicity (single or repeated exposure)

## 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:** 2 **Flammability:** 1 **Instability:** 1 **Special Hazards:** None

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

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