

# 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<sup>™</sup> Scotchlite<sup>™</sup> Transparent Screen Printing Ink 2916 Blue Violet

#### **Product Identification Numbers**

75-0300-8801-9 75-0300-8821-7 DR-9960-0223-1

#### 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 Solutions 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 / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

### **SECTION 2: Hazard identification**

### 2.1. Classification of the substance or mixture

Flammable Liquid: Category 3.

Serious Eye Damage/Irritation: Category 1. Skin Corrosion/Irritation: Category 2.

Skin Sensitizer: Category 1A.

Reproductive Toxicity: Category 1B.

Carcinogenicity: Category 2.

Specific Target Organ Toxicity (single exposure): Category 3.

#### 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. Causes skin irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. May damage fertility or the unborn child. 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, hot surfaces, sparks, open flames and other ignition sources. No smoking, Ground and bond container and receiving equipment. Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting equipment. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves and eve/face protection. Wash exposed skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

### Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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 CENTRE or doctor/physician. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF exposed or concerned: Get medical advice/attention. In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

#### Disposal:

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

#### 2.3. Other hazards

None known.

- 21% of the mixture consists of ingredients of unknown acute oral toxicity.
- 21% of the mixture consists of ingredients of unknown acute dermal toxicity.
- 21% 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
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CYCLOHEXANONE	108-94-1	25 - 35 Trade Secret *	Cyclohexanone
1-METHOXY-2-PROPYL	108-65-6	10 - 20	2-Propanol, 1-methoxy-, acetate
ACETATE			
ETHYL 3-	763-69-9	10 - 20	Propanoic acid, 3-ethoxy-, ethyl ester
ETHOXYPROPIONATE			
VINYL ACETATE-VINYL	25086-48-0	10 - 20	Acetic acid ethenyl ester, polymer with
ALCOHOL-VINYL			chloroethene and ethenol
CHLORIDE POLYMER			
Acrylic polymer	Trade Secret	1 - 10	Not Applicable
POLYMERIC PLASTICIZER	Trade Secret	5 - 10	Not Applicable
Epoxy Soybean Oil	8013-07-8	1 - 5	Soybean oil, epoxidized
N,N'-[6,13-DIACETAMIDO-	Trade Secret	1 - 5	Not Applicable
2,9-DIETHOXY-3,10-			
TRIPHENODIOXAZINEDIYL]			
BIS(BENZAMIDE)			
PROPRIETARY COMPOUND	Trade Secret	1 - 5	Not Applicable
PNUC - CAS 104810-47-1 (EC	104810-47-1	0 - 1.34	Poly(oxy-1,2-ethanediyl), .alpha[3-[3-
400-830-7)			(2H-benzotriazol-2-yl)-5-(1,1-dimethy
			lethyl)-4-hydroxyphenyl]-1-
			oxopropyl]omega[3-[ 3 -(2H-
			benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-
DILLIG. CA C 104010 40 2 (F.C.	104010 40 2	0 124	hyd roxyphenyl]-1-oxopropoxy]-
PNUC - CAS 104810-48-2 (EC	104810-48-2	0 - 1.34	Poly(oxy-1,2-ethanediyl), alpha[3-[3-
400-830-7)			(2H-benzotriazol-2-yl)-5-(1,1-dimethy
			lethyl)-4-hydroxyphenyl]-1- oxopropyl]omegahydr o xy-
HEAVY AROMATIC	64742-94-5	0.1 - 1 Trade Secret *	Solvent naphtha, petroleum, heavy
SOLVENT NAPHTHA	04/42-94-3	0.1 - 1 Trade Secret	arom.aromatic streams. It consists
(PETROLEUM)			predominantly of aromatic hydrocarbons
(I ETROLEOM)			having carbon numbers predominantly in
			the range of C9 through C16 and boiling in
			the range of approximately 165.degree.C to
			290.degree.C (330.degr
ISODECYL DIPHENYL	26544-23-0	0.1 - 1 Trade Secret *	Phosphorous acid, isodecyl diphenyl ester
PHOSPHITE		Trade Secret	a nospilorous usia, issues yr aipiichyr ester
PNUC - CAS 41556-26-7 (EC	41556-26-7	0.1 - 1 Trade Secret *	Decanedioic acid, bis(1,2,2,6,6-
915-687-0)			pentamethyl-4-piperidinyl) ester
ZINC 2-ETHYLHEXANOATE	136-53-8	< 0.25	Hexanoic acid, 2-ethyl-, zinc salt
Methyl Methacrylate	80-62-6	0 - 0.14	2-Propenoic acid, 2-methyl-, methyl ester
Toluene	108-88-3	0 - 0.14	No Data Available

Acrylic polymer is a non-hazardous Trade Secret material according to WHMIS criteria.

PROPRIETARY COMPOUND is a non-hazardous Trade Secret material according to WHMIS criteria.

N,N'-[6,13-DIACETAMIDO-2,9-DIETHOXY-3,10-TRIPHENODIOXAZINEDIYL]BIS(BENZAMIDE) is a non-hazardous Trade Secret material according to WHMIS criteria.

POLYMERIC PLASTICIZER is a non-hazardous Trade Secret material according to WHMIS criteria.

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### Inhalation:

\_\_\_\_\_\_

<sup>\*</sup>The actual concentration of this ingredient has been withheld as a trade secret.

### 3M™ Scotchlite™ Transparent Screen Printing Ink 2916 Blue Violet

#### **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). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness).

### 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	<u>Condition</u>
Acetic Acid	During Combustion
Hydrocarbons	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Hydrogen Chloride	During Combustion
Oxides of Nitrogen	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 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. 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 detergent and water. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

For industrial or professional use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. 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

Keep cool. Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. 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-METHOXY-2-PROPYL	108-65-6	AIHA	TWA:50 ppm	
ACETATE				
Toluene	108-88-3	ACGIH	TWA:20 ppm	
CYCLOHEXANONE	108-94-1	ACGIH	TWA:20 ppm;STEL:50 ppm	Danger of cutaneous
				absorption
Methyl Methacrylate	80-62-6	ACGIH	TWA:50 ppm;STEL:100 ppm	Dermal Sensitizer

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

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

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	Blue	
Odour	Solvent	
Odour threshold	No Data Available	
pH	Not Applicable	
Melting point/Freezing point	Not Applicable	
Boiling point	>=140 °C	
Flash Point	45 °C [Test Method:Closed Cup]	
Evaporation rate	No Data Available	
Flammability (solid, gas)	Not Applicable	
Flammable Limits(LEL)	1 %	
Flammable Limits(UEL)	8.7 %	
Vapour Pressure	<=493.3 Pa [@ 20 °C ]	
Vapour Density and/or Relative Vapour Density	> 1 [ <i>Ref Std:</i> AIR=1]	
Density	1.07 g/ml	
Relative density	1.07 [Ref Std:WATER=1]	
Water solubility	Moderate	
Solubility- non-water	No Data Available	
Partition coefficient: n-octanol/ water	No Data Available	
Autoignition temperature	> 354.4 °C	
Decomposition temperature	No Data Available	
Viscosity/Kinematic Viscosity	No Data Available	
Volatile Organic Compounds	685 g/l [Details: As manufactured]	

Volatile Organic Compounds	774 g/l [Details: After maximum thinning]
Percent volatile	55 - 65 %
VOC Less H2O & Exempt Solvents	685 g/l [Details: As manufactured]
VOC Less H2O & Exempt Solvents	774 g/l [Details: After maximum thinning]

# **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

Heat

Sparks and/or flames

#### 10.5. Incompatible materials

Strong oxidizing agents

#### 10.6. Hazardous decomposition products

**Substance** 

Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

# **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

May be harmful if inhaled. Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

### **Skin Contact:**

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).

#### **Eve 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:**

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:**

### Single exposure may cause target organ effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

### 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.

### **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 >2,000 - =5,000
			mg/kg
Overall product	Inhalation-		No data available; calculated ATE >20 - =50 mg/l
	Vapor(4 hr)		
Overall product	Ingestion		No data available; calculated ATE >2,000 - =5,000
			mg/kg
CYCLOHEXANONE	Dermal	Rabbit	LD50 >794, <3160 mg/kg
CYCLOHEXANONE	Inhalation-	Rat	LC50 > 6.2  mg/l
	Vapor (4		
	hours)		
CYCLOHEXANONE	Ingestion	Rat	LD50 1,296 mg/kg
ETHYL 3-ETHOXYPROPIONATE	Dermal	Rabbit	LD50 4,080 mg/kg
ETHYL 3-ETHOXYPROPIONATE	Inhalation-	Rat	LC50 > 14.4 mg/l
	Vapor (4		
	hours)		
ETHYL 3-ETHOXYPROPIONATE	Ingestion	Rat	LD50 3,200 mg/kg
VINYL ACETATE-VINYL ALCOHOL-VINYL CHLORIDE	Dermal	Rabbit	LD50 > 8,000 mg/kg
POLYMER			
VINYL ACETATE-VINYL ALCOHOL-VINYL CHLORIDE	Ingestion	Rat	LD50 > 8,000 mg/kg
POLYMER			
1-METHOXY-2-PROPYL ACETATE	Dermal	Rabbit	LD50 > 5,000 mg/kg
1-METHOXY-2-PROPYL ACETATE	Inhalation-	Rat	LC50 > 28.8  mg/l
	Vapor (4		
	hours)		
1-METHOXY-2-PROPYL ACETATE	Ingestion	Rat	LD50 8,532 mg/kg
Epoxy Soybean Oil	Dermal	Rabbit	LD50 > 20,000 mg/kg
Epoxy Soybean Oil	Ingestion	Rat	LD50 > 5,000 mg/kg
PNUC - CAS 104810-47-1 (EC 400-830-7)	Dermal	Rat	LD50 > 2,000 mg/kg
PNUC - CAS 104810-47-1 (EC 400-830-7)	Inhalation-	Rat	LC50 > 5.8  mg/l
	Dust/Mist		
	(4 hours)		
PNUC - CAS 104810-47-1 (EC 400-830-7)	Ingestion	Rat	LD50 > 5,000 mg/kg
PNUC - CAS 104810-48-2 (EC 400-830-7)	Dermal	Rat	LD50 > 2,000 mg/kg
PNUC - CAS 104810-48-2 (EC 400-830-7)	Inhalation-	Rat	LC50 > 5.8 mg/l
	Dust/Mist		
	(4 hours)		
PNUC - CAS 104810-48-2 (EC 400-830-7)	Ingestion	Rat	LD50 > 5,000 mg/kg
ISODECYL DIPHENYL PHOSPHITE	Dermal	Rabbit	LD50 > 5,000 mg/kg
ISODECYL DIPHENYL PHOSPHITE	Inhalation-	Rat	LC50 > 2.1 mg/l

	Dust/Mist (4 hours)		
ISODECYL DIPHENYL PHOSPHITE	Ingestion	Rat	LD50 3,840 mg/kg
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Inhalation- Vapor		LC50 estimated to be 20 - 50 mg/l
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Dermal	Rabbit	LD50 > 2,000 mg/kg
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Ingestion	Rat	LD50 > 5,000 mg/kg
PNUC - CAS 41556-26-7 (EC 915-687-0)	Dermal	Professio nal judgeme nt	LD50 estimated to be 2,000 - 5,000 mg/kg
PNUC - CAS 41556-26-7 (EC 915-687-0)	Ingestion	Rat	LD50 3,125 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
ZINC 2-ETHYLHEXANOATE	Dermal		LD50 estimated to be > 5,000 mg/kg
ZINC 2-ETHYLHEXANOATE	Ingestion	Rat	LD50 > 5,000 mg/kg
Methyl Methacrylate	Dermal	Rabbit	LD50 > 5,000 mg/kg
Methyl Methacrylate	Inhalation- Vapor (4 hours)	Rat	LC50 29.8 mg/l
Methyl Methacrylate	Ingestion	Rat	LD50 7,900 mg/kg

ATE = acute toxicity estimate

# Skin Corrosion/Irritation

Name	Species	Value
CYCLOHEXANONE	Rabbit	Irritant
ETHYL 3-ETHOXYPROPIONATE	Rabbit	No significant irritation
VINYL ACETATE-VINYL ALCOHOL-VINYL CHLORIDE POLYMER	Professio	No significant irritation
	nal	
	judgeme	
	nt	
1-METHOXY-2-PROPYL ACETATE	Rabbit	No significant irritation
Epoxy Soybean Oil	Rabbit	No significant irritation
PNUC - CAS 104810-47-1 (EC 400-830-7)	Rabbit	No significant irritation
PNUC - CAS 104810-48-2 (EC 400-830-7)	Rabbit	No significant irritation
ISODECYL DIPHENYL PHOSPHITE	Rabbit	No significant irritation
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Rabbit	Minimal irritation
PNUC - CAS 41556-26-7 (EC 915-687-0)	Rabbit	Minimal irritation
Toluene	Rabbit	Irritant
ZINC 2-ETHYLHEXANOATE	Rabbit	Mild irritant
Methyl Methacrylate	Rabbit	Irritant

**Serious Eye Damage/Irritation** 

Name	Species	Value
CYCLOHEXANONE	In vitro data	Corrosive
ETHYL 3-ETHOXYPROPIONATE	Rabbit	Mild irritant
VINYL ACETATE-VINYL ALCOHOL-VINYL CHLORIDE POLYMER	Professio nal judgeme nt	No significant irritation
1-METHOXY-2-PROPYL ACETATE	Rabbit	Mild irritant
Epoxy Soybean Oil	Rabbit	No significant irritation
PNUC - CAS 104810-47-1 (EC 400-830-7)	Rabbit	No significant irritation
PNUC - CAS 104810-48-2 (EC 400-830-7)	Rabbit	No significant irritation
ISODECYL DIPHENYL PHOSPHITE	Rabbit	No significant irritation
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Rabbit	Mild irritant
PNUC - CAS 41556-26-7 (EC 915-687-0)	Rabbit	Mild irritant
Toluene	Rabbit	Moderate irritant

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ZINC 2-ETHYLHEXANOATE	Rabbit	Severe irritant
Methyl Methacrylate	Rabbit	Mild irritant

## **Skin Sensitization**

Name	Species	Value
CYCLOHEXANONE	Guinea	Not classified
	pig	
ETHYL 3-ETHOXYPROPIONATE	Guinea	Not classified
	pig	
1-METHOXY-2-PROPYL ACETATE	Guinea	Not classified
	pig	
Epoxy Soybean Oil	Guinea	Not classified
	pig	
PNUC - CAS 104810-47-1 (EC 400-830-7)	Guinea	Sensitizing
	pig	
PNUC - CAS 104810-48-2 (EC 400-830-7)	Guinea	Sensitizing
	pig	
ISODECYL DIPHENYL PHOSPHITE	Mouse	Sensitizing
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Guinea	Not classified
	pig	
PNUC - CAS 41556-26-7 (EC 915-687-0)	Guinea	Sensitizing
	pig	
Toluene	Guinea	Not classified
	pig	
Methyl Methacrylate	Human	Sensitizing
	and	
	animal	

**Respiratory Sensitization** 

Name	Species	Value
Methyl Methacrylate	Human	Not classified

**Germ Cell Mutagenicity** 

Name	Route	Value
CYCLOHEXANONE	In vivo	Not mutagenic
CYCLOHEXANONE	In Vitro	Some positive data exist, but the data are not sufficient for classification
ETHYL 3-ETHOXYPROPIONATE	In Vitro	Not mutagenic
1-METHOXY-2-PROPYL ACETATE	In Vitro	Not mutagenic
Epoxy Soybean Oil	In Vitro	Not mutagenic
PNUC - CAS 104810-47-1 (EC 400-830-7)	In Vitro	Not mutagenic
PNUC - CAS 104810-47-1 (EC 400-830-7)	In vivo	Not mutagenic
PNUC - CAS 104810-48-2 (EC 400-830-7)	In Vitro	Not mutagenic
PNUC - CAS 104810-48-2 (EC 400-830-7)	In vivo	Not mutagenic
ISODECYL DIPHENYL PHOSPHITE	In Vitro	Not mutagenic
ISODECYL DIPHENYL PHOSPHITE	In vivo	Not mutagenic
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	In Vitro	Not mutagenic
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	In vivo	Not mutagenic
PNUC - CAS 41556-26-7 (EC 915-687-0)	In vivo	Not mutagenic
PNUC - CAS 41556-26-7 (EC 915-687-0)	In Vitro	Some positive data exist, but the data are not sufficient for classification
Toluene	In Vitro	Not mutagenic
Toluene	In vivo	Not mutagenic
Methyl Methacrylate	In vivo	Not mutagenic
Methyl Methacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

our omogenion;							
Name	Route	Species	Value				
CYCLOHEXANONE	Ingestion	Multiple animal	Some positive data exist, but the data are not sufficient for classification				
		species					

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Epoxy Soybean Oil	Ingestion	Rat	Not carcinogenic
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Not	Not	Carcinogenic
	Specified	applicabl	
		e	
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
Methyl Methacrylate	Ingestion	Rat	Not carcinogenic
Methyl Methacrylate	Inhalation	Human	Not carcinogenic
		and	
		animal	

# Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
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 organogenesi s
CYCLOHEXANONE	Inhalation	Not classified for development	Rat	NOAEL 2 mg/l	2 generation
1-METHOXY-2-PROPYL ACETATE	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
1-METHOXY-2-PROPYL ACETATE	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
1-METHOXY-2-PROPYL ACETATE	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
1-METHOXY-2-PROPYL ACETATE	Inhalation	Not classified for development	Rat	NOAEL 21.6 mg/l	during organogenesi s
Epoxy Soybean Oil	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	1 generation
Epoxy Soybean Oil	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	1 generation
Epoxy Soybean Oil	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	1 generation
PNUC - CAS 104810-47-1 (EC 400-830-7)	Ingestion	Not classified for female reproduction	Rat	NOAEL 100 mg/kg/day	premating into lactation
PNUC - CAS 104810-47-1 (EC 400-830-7)	Ingestion	Not classified for male reproduction	Rat	NOAEL 100 mg/kg/day	115 days
PNUC - CAS 104810-47-1 (EC 400-830-7)	Ingestion	Not classified for development	Rat	NOAEL 2 mg/kg/day	premating into lactation
PNUC - CAS 104810-48-2 (EC 400-830-7)	Ingestion	Not classified for female reproduction	Rat	NOAEL 100 mg/kg/day	premating into lactation
PNUC - CAS 104810-48-2 (EC 400-830-7)	Ingestion	Not classified for male reproduction	Rat	NOAEL 100 mg/kg/day	115 days
PNUC - CAS 104810-48-2 (EC 400-830-7)	Ingestion	Not classified for development	Rat	NOAEL 2 mg/kg/day	premating into lactation
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Not Specified	Not classified for female reproduction	Rat	NOAEL Not available	2 generation
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Not Specified	Not classified for male reproduction	Rat	NOAEL Not available	2 generation
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Not Specified	Not classified for development	Rat	NOAEL Not available	2 generation
PNUC - CAS 41556-26-7 (EC 915-687-0)	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,493	29 days

				mg/kg/day	
PNUC - CAS 41556-26-7 (EC 915-687-0)	Ingestion	Not classified for development	Rat	NOAEL 209 mg/kg/day	premating into lactation
PNUC - CAS 41556-26-7 (EC 915-687-0)	Ingestion	Toxic to female reproduction	Rat	NOAEL 804 mg/kg/day	premating into lactation
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
ZINC 2-ETHYLHEXANOATE	Ingestion	Not classified for female reproduction	similar compoun ds	NOAEL 800 mg/kg/day	2 generation
ZINC 2-ETHYLHEXANOATE	Ingestion	Not classified for male reproduction	similar compoun ds	NOAEL 800 mg/kg/day	2 generation
ZINC 2-ETHYLHEXANOATE	Ingestion	Toxic to development	similar compoun ds	NOAEL 100 mg/kg/day	during gestation
Methyl Methacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 400 mg/kg/day	2 generation
Methyl Methacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 400 mg/kg/day	2 generation
Methyl Methacrylate	Ingestion	Not classified for development	Rabbit	NOAEL 450 mg/kg/day	during gestation
Methyl Methacrylate	Inhalation	Not classified for development	Rat	NOAEL 8.3 mg/l	during organogenesi s

# Target Organ(s)

**Specific Target Organ Toxicity - single exposure** 

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
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	Professio nal judgeme nt	NOAEL Not available	
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	
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	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 classification	Human	NOAEL Not available	
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
ZINC 2- ETHYLHEXANOATE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	

Methyl Methacrylate	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not	occupational
					available	exposure

Specific Target Organ Toxicity - reneated exposure

Specific Target Organ Toxicity - repeated exposure							
Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration	
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	
ETHYL 3- ETHOXYPROPIONATE	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 6 mg/l	90 days	
ETHYL 3- ETHOXYPROPIONATE	Inhalation	nervous system   heart   liver   immune system   kidney and/or bladder	Not classified	Rat	NOAEL 6 mg/l	17 days	
ETHYL 3- ETHOXYPROPIONATE	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	17 days	
ETHYL 3- ETHOXYPROPIONATE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days	
ETHYL 3- ETHOXYPROPIONATE	Ingestion	kidney and/or bladder   respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	17 days	
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	
Epoxy Soybean Oil	Ingestion	liver   kidney and/or bladder	Not classified	Rat	NOAEL 1,250 mg/kg/day	2 years	
PNUC - CAS 104810-47-1 (EC 400-830-7)	Ingestion	liver   endocrine system   hematopoietic system   eyes   kidney and/or bladder   respiratory system	Not classified	Rat	NOAEL 50 mg/kg/day	90 days	
PNUC - CAS 104810-48-2 (EC 400-830-7)	Ingestion	liver   endocrine system   hematopoietic system   eyes   kidney and/or bladder   respiratory system	Not classified	Rat	NOAEL 50 mg/kg/day	90 days	
ISODECYL DIPHENYL PHOSPHITE	Ingestion	nervous system	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 15 mg/kg/day	28 days	
PNUC - CAS 41556-26-7 (EC 915-687-0)	Ingestion	eyes	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 300 mg/kg/day	28 days	
PNUC - CAS 41556-26-7 (EC 915-687-0)	Ingestion	gastrointestinal tract   liver   immune system   heart   endocrine system   hematopoietic system   nervous system   kidney and/or bladder	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days	

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Toluene	Inhalation	auditory system   eyes   olfactory system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	poisoning and/or abuse
Toluene	Inhalation	nervous system	May cause damage to organs though 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
Methyl Methacrylate	Dermal	peripheral nervous system	Not classified	Human	NOAEL Not available	occupational exposure
Methyl Methacrylate	Inhalation	olfactory system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Methyl Methacrylate	Inhalation	kidney and/or bladder	Not classified	Multiple animal species	NOAEL Not available	14 weeks
Methyl Methacrylate	Inhalation	liver	Not classified	Mouse	NOAEL 12.3 mg/l	14 weeks
Methyl Methacrylate	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
Methyl Methacrylate	Ingestion	kidney and/or bladder   heart   skin   endocrine system   gastrointestinal tract   hematopoietic system   liver   muscles   nervous system   respiratory system	Not classified	Rat	NOAEL 90.3 mg/kg/day	2 years

### **Aspiration Hazard**

Name	Value
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	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.

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# **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. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. 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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3M Canada SDSs are available at www.3M.ca

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