



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Malaysia Occupational Safety and Health (Chemical Classification, Labelling and Safety Data Sheets) Regulations 2013.

SECTION 1: Identification

1.1. Product identifier

3M™ Screen Printing UV Ink 9812 Magenta

Product Identification Numbers

75-3470-5600-6 75-3500-1033-8

1.2. Recommended use and restrictions on use

Recommended use

Screen Printing Ink, Ink

For Industrial or Professional use only

1.3. Supplier's details

ADDRESS: 3M Malaysia Sdn. Bhd., Level 8, Block F, Oasis Square, No.2, Jalan PJU 1A/7A, Ara Damansara 47301
Petaling, Jaya, Selangor
Telephone: 03-7884 2888
E Mail: 3mmyehsr@mmm.com
Website: www.3M.com.my

1.4. Emergency telephone number

+60 03-7884 2888

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

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

2.2. Label elements

Signal word

Danger

Symbols

Exclamation mark |Health Hazard |Environment |

Pictograms**Hazard Statements:**

H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H360	May damage fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure: respiratory system.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements**Prevention:**

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P280E	Wear protective gloves.
P281	Use personal protective equipment as required.

Response:

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Disposal:

P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.
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2.3. Other hazards

None known

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt
PHENOXY ETHYL ACRYLATE	48145-04-6	40 - 50
VINYLCAPROLACTAM	2235-00-9	10 - 20
METHACRYLATE POLYMER	Trade Secret	10 - 20
ALIPHATIC URETHANE ACRYLATE	Trade Secret	7 - 13
QUINACRIDONE MAGENTA Y	980-26-7	5 - 10
1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)-	71868-10-5	1 - 5

DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE	7328-17-8	1 - 5
1-BUTANONE, 2-(DIMETHYLAMINO)- 1-[4-(4-MORPHOLINYL)PHENYL]-2- (PHENYLMETHYL)-	119313-12-1	1 - 5
TRIMETHYLOLPROPANE ETHOXYLATE TRIACRYLATE	28961-43-5	< 1
.ALPHA.,.ALPHA.',.ALPHA."-1,2,3- PROPANETRIYLTRIS[POLYPROPYLEN E GLYCOL ACRYLATE]	52408-84-1	< 1
ETHYLBENZENE	100-41-4	< 0.5
OCTAMETHYLCYCLOTETRAILOXAN E	556-67-2	< 0.5

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

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

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

Formaldehyde
Carbon monoxide
Carbon dioxide

Condition

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. 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. 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**

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

Keep cool. 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
ETHYLBENZENE	100-41-4	ACGIH	TWA:20 ppm	A3: Confirmed animal carcin., Ototoxicant
ETHYLBENZENE	100-41-4	Malaysia OELs	TWA(8 hours):434 mg/m ³ (100 ppm)	
VINYLCAPROLACTAM	2235-00-9	Manufacturer determined	TWA(8 hours):0.1 ppm(0.57 mg/m ³)	

ACGIH : American Conference of Governmental Industrial Hygienists

CMRG : Chemical Manufacturer's Recommended Guidelines

Malaysia OELs : Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations

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.

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:

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 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

Physical state	Liquid
Specific Physical Form:	Liquid
Color	Magenta
Odor	Acrylate
Odor threshold	<i>No Data Available</i>
pH	<i>Not Applicable</i>
Melting point/Freezing point	<i>Not Applicable</i>
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 (solid, gas)	Not Applicable
Flammable Limits(LEL)	<i>No Data Available</i>
Flammable Limits(UEL)	<i>No Data Available</i>
Vapor Pressure	< 160 Pa [@ 20 °C]
Vapor Density and/or Relative Vapor Density	<i>No Data Available</i>
Density	Approximately 1.3 g/ml
Relative Density	Approximately 1.3 [Ref Std:WATER=1]
Water solubility	Negligible

Solubility- non-water	<i>No Data Available</i>
Partition coefficient: n-octanol/ water	<i>No Data Available</i>
Autoignition temperature	<i>No Data Available</i>
Decomposition temperature	<i>No Data Available</i>
Viscosity/Kinematic Viscosity	<i>No Data Available</i>
Volatile Organic Compounds	7 g/l
Percent volatile	1 - 5 % weight
VOC Less H2O & Exempt Solvents	7 g/l

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 loss of initiator 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

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:

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. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

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.

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 >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
METHACRYLATE POLYMER	Dermal		LD50 estimated to be > 5,000 mg/kg
METHACRYLATE POLYMER	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
VINYLCAPROLACTAM	Dermal	Rabbit	LD50 1,700 mg/kg
VINYLCAPROLACTAM	Ingestion	Rat	LD50 1,049 mg/kg
QUINACRIDONE MAGENTA Y	Dermal	Rabbit	LD50 > 3,000 mg/kg
QUINACRIDONE MAGENTA Y	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 3.1 mg/l
QUINACRIDONE MAGENTA Y	Ingestion	Rat	LD50 > 5,000 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
1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)-	Dermal	Rat	LD50 > 2,000 mg/kg
1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)-	Ingestion	Rat	LD50 967 mg/kg
1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)-	Dermal	Rat	LD50 > 2,000 mg/kg
1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)-	Ingestion	Rat	LD50 > 5,000 mg/kg
TRIMETHYLOLPROPANE ETHOXYLATE TRIACRYLATE	Dermal	Rabbit	LD50 > 13,200 mg/kg
TRIMETHYLOLPROPANE ETHOXYLATE TRIACRYLATE	Ingestion	Rat	LD50 > 2,000 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
OCTAMETHYLCYCLOTETRASIOXANE	Dermal	Rat	LD50 > 2,400 mg/kg
OCTAMETHYLCYCLOTETRASIOXANE	Inhalation- Dust/Mist (4 hours)	Rat	LC50 36 mg/l
OCTAMETHYLCYCLOTETRASIOXANE	Ingestion	Rat	LD50 > 4,800 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

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
PHENOXY ETHYL ACRYLATE	Rabbit	No significant irritation
VINYLCAPROLACTAM	Rabbit	Minimal irritation
QUINACRIDONE MAGENTA Y	Rabbit	No significant irritation
DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE	Rabbit	Irritant
1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)-	Rabbit	No significant irritation
1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)-	Rabbit	No significant irritation
TRIMETHYLOLPROPANE ETHOXYLATE TRIACRYLATE	Rabbit	Minimal irritation
.ALPHA.,.ALPHA.',.ALPHA."-1,2,3- PROPANETRIYLTRIS[POLYPROPYLENE GLYCOL ACRYLATE]	Rabbit	Minimal irritation
OCTAMETHYLCYCLOTETRASIOXANE	Rabbit	No significant irritation
ETHYLBENZENE	Rabbit	Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
PHENOXY ETHYL ACRYLATE	Rabbit	No significant irritation
VINYLCAPROLACTAM	Rabbit	Severe irritant
QUINACRIDONE MAGENTA Y	Rabbit	No significant irritation
DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE	Rabbit	Severe irritant
1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)-	Rabbit	No significant irritation
1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)-	Rabbit	No significant irritation
TRIMETHYLOLPROPANE ETHOXYLATE TRIACRYLATE	Rabbit	Severe irritant
.ALPHA.,.ALPHA.',.ALPHA."-1,2,3- PROPANETRIYLTRIS[POLYPROPYLENE GLYCOL ACRYLATE]	Rabbit	Severe irritant
OCTAMETHYLCYCLOTETRASIOXANE	Rabbit	No significant irritation
ETHYLBENZENE	Rabbit	Moderate irritant

Sensitization:

Skin Sensitization

Name	Species	Value
PHENOXY ETHYL ACRYLATE	Guinea pig	Sensitizing
VINYLCAPROLACTAM	Mouse	Sensitizing
QUINACRIDONE MAGENTA Y	Multiple animal species	Not classified
DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE	Guinea pig	Sensitizing
1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)-	Guinea pig	Not classified

TRIMETHYLOLPROPANE ETHOXYLATE TRIACRYLATE	Guinea pig	Sensitizing
.ALPHA.,.ALPHA.',.ALPHA."-1,2,3-PROPANETRIYLTRIS[POLYPROPYLENE GLYCOL ACRYLATE]	Mouse	Sensitizing
OCTAMETHYLCYCLOTETRASIOXANE	Human and animal	Not classified
ETHYLBENZENE	Human	Not classified

Respiratory Sensitization

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

Germ Cell Mutagenicity

Name	Route	Value
VINYLCAPROLACTAM	In Vitro	Not mutagenic
QUINACRIDONE MAGENTA Y	In Vitro	Not mutagenic
QUINACRIDONE MAGENTA Y	In vivo	Not mutagenic
1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)-	In Vitro	Not mutagenic
1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)-	In vivo	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
OCTAMETHYLCYCLOTETRASIOXANE	In vivo	Not mutagenic
OCTAMETHYLCYCLOTETRASIOXANE	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

Carcinogenicity

Name	Route	Species	Value
OCTAMETHYLCYCLOTETRASIOXANE	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
ETHYLBENZENE	Inhalation	Multiple animal species	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	premating into lactation
PHENOXY ETHYL ACRYLATE	Ingestion	Toxic to development	Rat	NOAEL 300 mg/kg/day	premating into lactation
1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)-	Ingestion	Toxic to female reproduction	Rat	LOAEL 40 mg/kg/day	1 generation
1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)-	Ingestion	Toxic to development	Rat	LOAEL 40 mg/kg/day	1 generation
1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)-	Ingestion	Not classified for female reproduction	Rat	NOAEL 300 mg/kg/day	1 generation
1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)-	Ingestion	Not classified for male reproduction	Rat	NOAEL 300 mg/kg/day	1 generation
1-BUTANONE, 2-(DIMETHYLAMINO)-	Ingestion	Toxic to development	Rat	NOAEL 30	1 generation

1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)-					mg/kg/day	
TRIMETHYLOLPROPANE ETHOXYLATE TRIACRYLATE	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day		prematuring 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 organogenesis
OCTAMETHYLCYCLOTETRAILOXANE	Inhalation	Not classified for male reproduction	Rat	NOAEL 8.5 mg/l		2 generation
OCTAMETHYLCYCLOTETRAILOXANE	Inhalation	Not classified for development	Rabbit	NOAEL 6 mg/l		during organogenesis
OCTAMETHYLCYCLOTETRAILOXANE	Ingestion	Not classified for development	Rabbit	NOAEL 100 mg/kg		during organogenesis
OCTAMETHYLCYCLOTETRAILOXANE	Ingestion	Toxic to female reproduction	Rabbit	NOAEL 50 mg/kg/day		during organogenesis
OCTAMETHYLCYCLOTETRAILOXANE	Inhalation	Toxic to female reproduction	Rat	NOAEL 3.6 mg/l		2 generation
ETHYLBENZENE	Inhalation	Not classified for development	Rat	NOAEL 4.3 mg/l		prematuring & during gestation

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	
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	
ETHYLBENZENE	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	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 liver kidney and/or bladder eyes	Not classified	Rat	NOAEL 0.18 mg/l	90 days
VINYLCAPROLACTAM	Ingestion	liver	Not classified	Rat	NOAEL 260 mg/kg/day	3 months
1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)-	Ingestion	peripheral nervous system eyes	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 75 mg/kg/day	90 days
1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-	Ingestion	endocrine system hematopoietic system liver kidney and/or bladder	Not classified	Rat	NOAEL 500 mg/kg/day	28 days

(PHENYLMETHYL)- TRIMETHYLOLPROPANE ETHOXYLATE TRIACRYLATE	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 100 mg/kg/day	29 days
TRIMETHYLOLPROPANE ETHOXYLATE TRIACRYLATE	Ingestion	endocrine system hematopoietic system liver immune system nervous system kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
OCTAMETHYLCYCLOTRASILOXANE	Dermal	hematopoietic system	Not classified	Rabbit	NOAEL 960 mg/kg/day	3 weeks
OCTAMETHYLCYCLOTRASILOXANE	Inhalation	liver	Not classified	Rat	NOAEL 8.5 mg/l	13 weeks
OCTAMETHYLCYCLOTRASILOXANE	Inhalation	endocrine system immune system kidney and/or bladder	Not classified	Rat	NOAEL 8.5 mg/l	2 generation
OCTAMETHYLCYCLOTRASILOXANE	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 8.5 mg/l	13 weeks
OCTAMETHYLCYCLOTRASILOXANE	Ingestion	liver	Not classified	Rat	NOAEL 1,600 mg/kg/day	2 weeks
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

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

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labeling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:

GHS Acute 2: Toxic to aquatic life.

Chronic aquatic hazard:

GHS Chronic 2: Toxic to aquatic life with long lasting effects

No product test data available

Material	Cas #	Organism	Type	Exposure	Test Endpoint	Test Result
PHENOXY ETHYL ACRYLATE	48145-04-6	Activated sludge	Experimental	3 hours	EC50	177 mg/l
PHENOXY ETHYL ACRYLATE	48145-04-6	Golden Orfe	Experimental	96 hours	LC50	10 mg/l
PHENOXY ETHYL ACRYLATE	48145-04-6	Green algae	Experimental	72 hours	EC50	4.4 mg/l
PHENOXY ETHYL ACRYLATE	48145-04-6	Water flea	Experimental	48 hours	EC50	1.21 mg/l
PHENOXY ETHYL ACRYLATE	48145-04-6	Green algae	Experimental	72 hours	EC10	0.71 mg/l
METHACRYLATE POLYMER	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
VINYLCAPROLACTAM	2235-00-9	Bacteria	Experimental	17 hours	EC50	622 mg/l
VINYLCAPROLACTAM	2235-00-9	Green algae	Experimental	72 hours	ErC50	>100 mg/l
VINYLCAPROLACTAM	2235-00-9	Water flea	Experimental	48 hours	EC50	>100 mg/l
VINYLCAPROLACTAM	2235-00-9	Zebra Fish	Experimental	96 hours	LC50	307 mg/l
VINYLCAPROLACTAM	2235-00-9	Green algae	Experimental	72 hours	NOEC	25 mg/l
ALIPHATIC URETHANE ACRYLATE	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
QUINACRIDONE MAGENTA Y	980-26-7	Activated sludge	Experimental	3 hours	EC50	>100 mg/l
QUINACRIDONE MAGENTA Y	980-26-7	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100 mg/l
QUINACRIDONE MAGENTA Y	980-26-7	Water flea	Experimental	48 hours	No tox obs at lmt of water sol	>100 mg/l
QUINACRIDONE MAGENTA Y	980-26-7	Zebra Fish	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
QUINACRIDONE MAGENTA Y	980-26-7	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100 mg/l
QUINACRIDONE MAGENTA Y	980-26-7	Water flea	Experimental	21 days	No tox obs at lmt of water sol	>100 mg/l
QUINACRIDONE MAGENTA Y	980-26-7	Zebra Fish	Experimental	28 days	No tox obs at lmt of water sol	>100 mg/l
1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)-	71868-10-5	Activated sludge	Experimental	3 hours	EC50	>100 mg/l
1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)-	71868-10-5	Green algae	Experimental	72 hours	ErC50	1.6 mg/l
1-PROPANONE, 2-METHYL-1-[4-	71868-10-5	Water flea	Experimental	24 hours	EC50	15.3 mg/l

(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)-						
1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)-	71868-10-5	Zebra Fish	Experimental	96 hours	LC50	9 mg/l
1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)-	71868-10-5	Green algae	Experimental	72 hours	ErC10	0.92 mg/l
1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)-	71868-10-5	Water flea	Experimental	21 days	EC10	1.75 mg/l
1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)-	119313-12-1	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100 mg/l
1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)-	119313-12-1	Water flea	Experimental	24 hours	No tox obs at lmt of water sol	>100 mg/l
1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)-	119313-12-1	Zebra Fish	Experimental	96 hours	LC50	0.46 mg/l
1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)-	119313-12-1	Water flea	Experimental	21 days	No tox obs at lmt of water sol	100 mg/l
1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)-	119313-12-1	Activated sludge	Experimental	30 minutes	EC50	>100 mg/l
1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)-	119313-12-1	Cucumber	Experimental	16 days	EC50	>316.2 mg/kg (Dry Weight)
1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)-	119313-12-1	Redworm	Experimental	14 days	LC50	>1,000 mg/kg (Dry Weight)
DIETHYLENE GLYCOL ETHYL	7328-17-8	Golden Orfe	Experimental	96 hours	LC50	10 mg/l

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ETHER ACRYLATE						
DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE	7328-17-8	Green algae	Experimental	72 hours	ErC50	3.2 mg/l
DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE	7328-17-8	Water flea	Experimental	48 hours	EC50	10.56 mg/l
DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE	7328-17-8	Green algae	Experimental	72 hours	NOEC	<1 mg/l
DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE	7328-17-8	Activated sludge	Experimental	3 hours	EC50	770 mg/l
.ALPHA.,.ALPHA. ,.ALPHA."-1,2,3- PROPANETRIYL TRIS[POLYPROP YLENE GLYCOL ACRYLATE]	52408-84-1	Activated sludge	Experimental	3 hours	EC20	507 mg/l
.ALPHA.,.ALPHA. ,.ALPHA."-1,2,3- PROPANETRIYL TRIS[POLYPROP YLENE GLYCOL ACRYLATE]	52408-84-1	Green algae	Experimental	72 hours	ErC50	12.2 mg/l
.ALPHA.,.ALPHA. ,.ALPHA."-1,2,3- PROPANETRIYL TRIS[POLYPROP YLENE GLYCOL ACRYLATE]	52408-84-1	Water flea	Experimental	48 hours	EC50	91.4 mg/l
.ALPHA.,.ALPHA. ,.ALPHA."-1,2,3- PROPANETRIYL TRIS[POLYPROP YLENE GLYCOL ACRYLATE]	52408-84-1	Zebra Fish	Experimental	96 hours	LC50	5.74 mg/l
.ALPHA.,.ALPHA. ,.ALPHA."-1,2,3- PROPANETRIYL TRIS[POLYPROP YLENE GLYCOL ACRYLATE]	52408-84-1	Green algae	Experimental	72 hours	NOEC	0.921 mg/l
TRIMETHYLOLP ROPANE ETHOXYLATE TRIACRYLATE	28961-43-5	Green algae	Experimental	72 hours	ErC50	2.2 mg/l
TRIMETHYLOLP ROPANE ETHOXYLATE TRIACRYLATE	28961-43-5	Water flea	Experimental	48 hours	EC50	70.7 mg/l
TRIMETHYLOLP ROPANE ETHOXYLATE TRIACRYLATE	28961-43-5	Zebra Fish	Experimental	96 hours	LC50	1.95 mg/l
TRIMETHYLOLP ROPANE ETHOXYLATE TRIACRYLATE	28961-43-5	Green algae	Experimental	72 hours	ErC10	0.323 mg/l
TRIMETHYLOLP ROPANE ETHOXYLATE TRIACRYLATE	28961-43-5	Activated sludge	Experimental	3 hours	EC20	292 mg/l
ETHYLBENZENE	100-41-4	Activated sludge	Experimental	49 hours	EC50	130 mg/l

ETHYLBENZENE	100-41-4	Atlantic Silverside	Experimental	96 hours	LC50	5.1 mg/l
ETHYLBENZENE	100-41-4	Green algae	Experimental	96 hours	EC50	3.6 mg/l
ETHYLBENZENE	100-41-4	Mysid Shrimp	Experimental	96 hours	LC50	2.6 mg/l
ETHYLBENZENE	100-41-4	Rainbow Trout	Experimental	96 hours	LC50	4.2 mg/l
ETHYLBENZENE	100-41-4	Water flea	Experimental	48 hours	EC50	1.8 mg/l
ETHYLBENZENE	100-41-4	Water flea	Experimental	7 days	NOEC	0.96 mg/l
OCTAMETHYLC YCLOTETRASIL OXANE	556-67-2	Blackworm	Experimental	28 days	NOEC	0.73 mg/kg (Dry Weight)
OCTAMETHYLC YCLOTETRASIL OXANE	556-67-2	Midge	Experimental	14 days	LC50	>170 mg/kg (Dry Weight)
OCTAMETHYLC YCLOTETRASIL OXANE	556-67-2	Mysid Shrimp	Experimental	96 hours	LC50	>0.0091 mg/l
OCTAMETHYLC YCLOTETRASIL OXANE	556-67-2	Rainbow Trout	Experimental	96 hours	LC50	>0.022 mg/l
OCTAMETHYLC YCLOTETRASIL OXANE	556-67-2	Water flea	Experimental	48 hours	EC50	>0.015 mg/l
OCTAMETHYLC YCLOTETRASIL OXANE	556-67-2	Rainbow Trout	Experimental	93 days	NOEC	0.0044 mg/l
OCTAMETHYLC YCLOTETRASIL OXANE	556-67-2	Water flea	Experimental	21 days	NOEC	0.015 mg/l
OCTAMETHYLC YCLOTETRASIL OXANE	556-67-2	Activated sludge	Experimental	3 hours	EC50	>10,000 mg/l

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
PHENOXY ETHYL ACRYLATE	48145-04-6	Experimental Biodegradation	28 days	Biological Oxygen Demand	22.3 %BOD/ThOD	OECD 301D - Closed Bottle Test
PHENOXY ETHYL ACRYLATE	48145-04-6	Estimated Photolysis		Photolytic half-life (in air)	9.7 hours (t 1/2)	
METHACRYLAT E POLYMER	Trade Secret	Data not availbl- insufficient	N/A	N/A	N/A	N/A
VINYLCAPROLA CTAM	2235-00-9	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	30-40 %removal of DOC	OECD 301A - DOC Die Away Test
VINYLCAPROLA CTAM	2235-00-9	Experimental Biodegradation		Dissolv. Organic Carbon Deplet	98 %removal of DOC	OECD 302B Zahn- Wellens/EVPA
VINYLCAPROLA CTAM	2235-00-9	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>1 years (t 1/2)	OECD 111 Hydrolysis func of pH
VINYLCAPROLA CTAM	2235-00-9	Experimental Hydrolysis		Hydrolytic half-life acidic pH	6.5 hours (t 1/2)	OECD 111 Hydrolysis func of pH
ALIPHATIC URETHANE ACRYLATE	Trade Secret	Data not availbl- insufficient	N/A	N/A	N/A	N/A
QUINACRIDONE MAGENTA Y	980-26-7	Experimental Biodegradation	28 days	Carbon dioxide evolution	3.2 %CO2 evolution/THCO2 evolution	OECD 301B - Mod. Sturm or CO2
1-PROPANONE, 2-METHYL-1-[4- (METHYLTHIO)P HENYL]-2-(4- MORPHOLINYL)-	71868-10-5	Experimental Biodegradation	28 days	Carbon dioxide evolution	≤1 %CO2 evolution/THCO2 evolution	OECD 301B - Mod. Sturm or CO2
1-BUTANONE, 2- (DIMETHYLAMI	119313-12-1	Experimental Biodegradation	28 days	Carbon dioxide evolution	3 %CO2 evolution/THCO2	OECD 301B - Mod. Sturm or CO2

(NO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)-					evolution	
1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)-	119313-12-1	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>1 years (t 1/2)	
DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE	7328-17-8	Experimental Biodegradation	28 days	Carbon dioxide evolution	98 %CO2 evolution/THCO2 evolution	OECD 301B - Mod. Sturm or CO2
DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE	7328-17-8	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	313 days (t 1/2)	OECD 111 Hydrolysis func of pH
DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE	7328-17-8	Experimental Hydrolysis		Hydrolytic half-life basic pH	4.65 days (t 1/2)	OECD 111 Hydrolysis func of pH
.ALPHA.,.ALPHA.,.ALPHA."-1,2,3-PROPANETRIYL TRIS[POLYPROPYLENE GLYCOL ACRYLATE]	52408-84-1	Experimental Biodegradation	28 days	Carbon dioxide evolution	72-85 %CO2 evolution/THCO2 evolution	OECD 301B - Mod. Sturm or CO2
TRIMETHYLOLPROPANE ETHOXYLATE TRIACRYLATE	28961-43-5	Experimental Biodegradation	28 days	Carbon dioxide evolution	60 %CO2 evolution/THCO2 evolution	OECD 301B - Mod. Sturm or CO2
ETHYLBENZENE	100-41-4	Experimental Biodegradation	28 days	Carbon dioxide evolution	70-80 %CO2 evolution/THCO2 evolution	ISO 14593 Inorg C Headspace
ETHYLBENZENE	100-41-4	Experimental Photolysis		Photolytic half-life (in air)	4.26 days (t 1/2)	
OCTAMETHYLCYCLOTETRASIL OXANE	556-67-2	Experimental Biodegradation	29 days	Carbon dioxide evolution	3.7 %CO2 evolution/THCO2 evolution	OECD 310 CO2 Headspace
OCTAMETHYLCYCLOTETRASIL OXANE	556-67-2	Experimental Photolysis		Photolytic half-life (in air)	31 days (t 1/2)	
OCTAMETHYLCYCLOTETRASIL OXANE	556-67-2	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	69.3-144 hours (t 1/2)	OECD 111 Hydrolysis func of pH

12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
PHENOXY ETHYL ACRYLATE	48145-04-6	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	2.58	
METHACRYLATE POLYMER	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
VINYLCAPROLACTAM	2235-00-9	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	1.2	similar to OECD 107
ALIPHATIC URETHANE ACRYLATE	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
QUINACRIDONE MAGENTA Y	980-26-7	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	2.2	

1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)-	71868-10-5	Experimental BCF - Fish	56 days	Bioaccumulation Factor	<10	
1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)-	71868-10-5	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	3.09	
1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)-	119313-12-1	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	2.91	OECD 107 log Kow shke flsk mtd
DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE	7328-17-8	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	1.105	OECD 117 log Kow HPLC method
.ALPHA.,.ALPHA.,.ALPHA."-1,2,3-PROPANETRIYL TRIS[POLYPROPYLENE GLYCOL ACRYLATE]	52408-84-1	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	2.52	OECD 107 log Kow shke flsk mtd
TRIMETHYLOLPROPANE ETHOXYLATE TRIACRYLATE	28961-43-5	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	2.89	OECD 107 log Kow shke flsk mtd
ETHYLBENZENE	100-41-4	Experimental BCF - Fish	42 days	Bioaccumulation Factor	1	
OCTAMETHYLCYCLOTETRASILOXANE	556-67-2	Experimental BCF - Fish	28 days	Bioaccumulation Factor	12400	40CFR 797.1520-Fish Bioaccumm
OCTAMETHYLCYCLOTETRASILOXANE	556-67-2	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	6.49	OECD 123 log Kow slow stir

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1. Disposal methods

According to the Environmental Quality (Scheduled Wastes) Regulations 2005, scheduled waste has to be sent to a prescribed premise for recycling, treatment or disposal. Please approach Kualiti Alam for proper schedule waste classification and disposal.

SECTION 14: Transport Information

Not hazardous for transportation.

Marine Transport (IMDG)

UN Number:UN3082

Proper Shipping Name:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Technical Name:None assigned.
Hazard Class/Division:9
Subsidiary Risk:None assigned.
Packing Group:III
Limited Quantity:None assigned.
Marine Pollutant: None assigned.
Marine Pollutant Technical Name: None assigned.
Other Dangerous Goods Descriptions:
None assigned.

Air Transport (IATA)

UN Number:UN3082
Proper Shipping Name:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical Name:None assigned.
Hazard Class/Division:9
Subsidiary Risk:None assigned.
Packing Group:III
Limited Quantity:None assigned.
Marine Pollutant: None assigned.
Marine Pollutant Technical Name: None assigned.
Other Dangerous Goods Descriptions:
None assigned.

Transportation classifications are provided as a customer service. As for shipping, YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling or marking requirements. The above information is only for reference. If you are shipping by air or ocean, YOU are advised to check & meet applicable regulatory requirements.

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 product are in compliance with the chemical notification requirements of TSCA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory.

SECTION 16: Other information

DISCLAIMER: The information in this Safety Data Sheet (SDS) is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this SDS or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own evaluation to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into Malaysia, you are responsible for all applicable regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration/notification.

3M Malaysia SDSs are available at www.3M.com.my