

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(TM) Screen Printing UV Ink 9810 UV Toner

Product Identification Numbers

75-3470-6921-5 75-3500-1031-2

1.2. Recommended use and restrictions on use

Recommended use

Screen Printing Ink, Ink

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

General:

P102 Keep out of reach of children.

P101 If medical advice is needed, have product container or label at hand.

Prevention:

P201 Obtain special instructions before use.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P280B Wear protective gloves and eye/face protection.
P281 Use personal protective equipment as required.

P273 Avoid release to the environment.

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.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P308 + P313 If exposed or concerned: Get medical advice/attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with applicable

local/regional/national/international regulations.

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 | 30 - 40 |
| VINYLCAPROLACTAM | 2235-00-9 | 10 - 20 |
| METHACRYLATE POLYMER | Trade Secret | 10 - 20 |
| ALIPHATIC URETHANE ACRYLATE | Trade Secret | 7 - 13 |

| 2-HYDROXY-2-METHYL-1-PHENYL-1- | 7473-98-5 | 1 - 5 |
|----------------------------------|-------------|-------|
| PROPANONE | | |
| 2-PHENOXYETHANOL | 122-99-6 | 1 - 5 |
| DIETHYLENE GLYCOL ETHYL ETHER | 7328-17-8 | 1 - 5 |
| ACRYLATE | | |
| PHOSPHINE OXIDE, DIPHENYL(2,4,6- | 75980-60-8 | 1 - 5 |
| TRIMETHYLBENZOYL)- | | |
| PROPOXYLATED GLYCEROL | 52408-84-1 | 1 - 5 |
| TRIACRYLATE | | |
| SYNTHETIC AMORPHOUS SILICA, | 112945-52-5 | 1 - 5 |
| FUMED, CRYSTALLINE FREE | | |
| TRIMETHYLOLPROPANE | 28961-43-5 | < 1 |
| ETHOXYLATE TRIACRYLATE | | |
| 4-Methoxyphenol | 150-76-5 | < 0.5 |
| OCTAMETHYLCYCLOTETRASILOXAN | 556-67-2 | < 0.5 |
| E | | |

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

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 carbon dioxide or dry chemical extinguisher 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> |
|------------------|-------------------|
| Formaldehyde | During Combustion |
| Carbon monoxide | During Combustion |
| Carbon dioxide | 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

Store in a well-ventilated place. Keep container tightly closed. 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 |
|------------------|------------|---------------|---------------------------|---------------------|
| 4-Methoxyphenol | 150-76-5 | ACGIH | TWA:5 mg/m3 | |
| 4-Methoxyphenol | 150-76-5 | Malaysia OELs | TWA(8 hours):5 mg/m3 | |
| VINYLCAPROLACTAM | 2235-00-9 | Manufacturer | TWA(8 hours):0.1 ppm(0.57 | |
| | | determined | mg/m3) | |

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 | Colorless |
| Odor | Acrylate |
| Odor threshold | No Data Available |
| рН | 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 (solid, gas) | Not Applicable |
| Flammable Limits(LEL) | No Data Available |

| Flammable Limits(UEL) | No Data Available | |
|---|-------------------------------------|--|
| Vapor Pressure | < 160 Pa [@ 20 °C] | |
| Vapor Density and/or 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 | |
| Viscosity/Kinematic Viscosity | No Data Available | |
| Volatile Organic Compounds | 5 g/l | |
| Percent volatile | 1 - 5 % weight | |
| VOC Less H2O & Exempt Solvents | 5 g/l | |

Nanoparticles

This material contains nanoparticles.

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
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:

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.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

| Name | Route | Species | Value |
|--|---------------------------------------|---------|--|
| Overall product | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Inhalation- Dust/Mist(4 hr) | | No data available; calculated ATE >12.5 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE2,000 - 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 |
| 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 |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Inhalation- Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Ingestion | Rat | LD50 > 5,110 mg/kg |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Dermal | Rabbit | LD50 > 2,000 mg/kg |

| PROPOXYLATED GLYCEROL TRIACRYLATE | Ingestion | Rat | LD50 > 2,000 mg/kg |
|---|-------------|-----------|--|
| PHOSPHINE OXIDE, DIPHENYL(2,4,6- | Dermal | Professio | LD50 estimated to be > 5,000 mg/kg |
| TRIMETHYLBENZOYL)- | | nal | |
| | | judgeme | |
| | | nt | |
| PHOSPHINE OXIDE, DIPHENYL(2,4,6- | Ingestion | Rat | LD50 > 5,000 mg/kg |
| TRIMETHYLBENZOYL)- | | | |
| 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 |
| 2-PHENOXYETHANOL | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| 2-PHENOXYETHANOL | Inhalation- | Rat | LC50 > 1.5 mg/l |
| | Dust/Mist | | |
| 2-PHENOXYETHANOL | Ingestion | Rat | LD50 1,260 mg/kg |
| TRIMETHYLOLPROPANE ETHOXYLATE TRIACRYLATE | Dermal | Rabbit | LD50 > 13,000 mg/kg |
| TRIMETHYLOLPROPANE ETHOXYLATE TRIACRYLATE | Ingestion | Rat | LD50 > 2,000 mg/kg |
| OCTAMETHYLCYCLOTETRASILOXANE | Dermal | Rat | LD50 > 2,400 mg/kg |
| OCTAMETHYLCYCLOTETRASILOXANE | Inhalation- | Rat | LC50 36 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |
| OCTAMETHYLCYCLOTETRASILOXANE | Ingestion | Rat | LD50 > 5,000 mg/kg |
| 4-Methoxyphenol | Dermal | Rat | LD50 > 2,000 mg/kg |
| 4-Methoxyphenol | Ingestion | Rat | LD50 1,630 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---|---------|---------------------------|
| | | |
| PHENOXY ETHYL ACRYLATE | Rabbit | No significant irritation |
| VINYLCAPROLACTAM | Rabbit | Minimal irritation |
| 2-HYDROXY-2-METHYL-1-PHENYL-1-PROPANONE | Rabbit | No significant irritation |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Rabbit | No significant irritation |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Rabbit | Minimal irritation |
| PHOSPHINE OXIDE, DIPHENYL(2,4,6-TRIMETHYLBENZOYL)- | Rabbit | No significant irritation |
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE | Rabbit | Irritant |
| 2-PHENOXYETHANOL | Rabbit | No significant irritation |
| TRIMETHYLOLPROPANE ETHOXYLATE TRIACRYLATE | Rabbit | Minimal irritation |
| OCTAMETHYLCYCLOTETRASILOXANE | Rabbit | Minimal irritation |
| 4-Methoxyphenol | Rabbit | Mild irritant |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---|---------|---------------------------|
| | | |
| PHENOXY ETHYL ACRYLATE | Rabbit | No significant irritation |
| VINYLCAPROLACTAM | Rabbit | Severe irritant |
| 2-HYDROXY-2-METHYL-1-PHENYL-1-PROPANONE | Rabbit | Mild irritant |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Rabbit | No significant irritation |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Rabbit | Severe irritant |
| PHOSPHINE OXIDE, DIPHENYL(2,4,6-TRIMETHYLBENZOYL)- | Rabbit | No significant irritation |
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE | Rabbit | Severe irritant |
| 2-PHENOXYETHANOL | Rabbit | Corrosive |
| TRIMETHYLOLPROPANE ETHOXYLATE TRIACRYLATE | Rabbit | Severe irritant |
| OCTAMETHYLCYCLOTETRASILOXANE | Rabbit | No significant irritation |
| 4-Methoxyphenol | Rabbit | Severe irritant |

Sensitization:

Skin Sensitization

| SKIII SCHSIUZAUUII | | | |
|---|---------|----------------|--|
| Name | Species | Value | |
| | | | |
| PHENOXY ETHYL ACRYLATE | Guinea | Sensitizing | |
| | pig | | |
| VINYLCAPROLACTAM | Mouse | Sensitizing | |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Human | Not classified | |

| | and animal | |
|--|---------------|----------------|
| PROPOXYLATED GLYCEROL TRIACRYLATE | Mouse | Sensitizing |
| PHOSPHINE OXIDE, DIPHENYL(2,4,6-TRIMETHYLBENZOYL)- | Mouse | Sensitizing |
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE | Guinea | Sensitizing |
| | pig | |
| 2-PHENOXYETHANOL | Guinea | Not classified |
| | pig | |
| TRIMETHYLOLPROPANE ETHOXYLATE TRIACRYLATE | Guinea | Sensitizing |
| | pig | |
| OCTAMETHYLCYCLOTETRASILOXANE | Human | Not classified |
| | and | |
| | animal | |
| 4-Methoxyphenol | Guinea | Sensitizing |
| | pig | |

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 |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | In Vitro | Not mutagenic |
| PHOSPHINE OXIDE, DIPHENYL(2,4,6-TRIMETHYLBENZOYL)- | In Vitro | Not mutagenic |
| OCTAMETHYLCYCLOTETRASILOXANE | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 4-Methoxyphenol | In vivo | Not mutagenic |
| 4-Methoxyphenol | In Vitro | Some positive data exist, but the data are not |
| | | sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|--|-----------|----------|--|
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE | Not | Mouse | Some positive data exist, but the data are not |
| FREE | Specified | | sufficient for classification |
| 4-Methoxyphenol | Dermal | Multiple | Not carcinogenic |
| | | animal | |
| | | species | |
| 4-Methoxyphenol | Ingestion | Multiple | Some positive data exist, but the data are not |
| | | animal | sufficient for classification |
| | | species | |

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 |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |
| PHOSPHINE OXIDE, DIPHENYL(2,4,6- TRIMETHYLBENZOYL)- | Ingestion | Not classified for development | Rat | NOAEL 150 mg/kg/day | during gestation |
| PHOSPHINE OXIDE, DIPHENYL(2,4,6- TRIMETHYLBENZOYL)- | Ingestion | Toxic to female reproduction | Rat | NOAEL 200 mg/kg/day | premating into lactation |

| PHOSPHINE OXIDE, DIPHENYL(2,4,6- | Ingestion | Toxic to male reproduction | Rat | NOAEL 60 | 85 days |
|----------------------------------|------------|--|--------|-----------|----------------|
| TRIMETHYLBENZOYL)- | | | | mg/kg/day | |
| OCTAMETHYLCYCLOTETRASILOXA | Inhalation | Not classified for male reproduction | Rat | NOAEL 8.5 | 2 generation |
| NE | | _ | | mg/l | |
| OCTAMETHYLCYCLOTETRASILOXA | Ingestion | Toxic to female reproduction | Rabbit | NOAEL 50 | during |
| NE | | • | | mg/kg/day | organogenesis |
| OCTAMETHYLCYCLOTETRASILOXA | Inhalation | Toxic to female reproduction | Rat | NOAEL 3.6 | 2 generation |
| NE | | • | | mg/l | |
| 4-Methoxyphenol | Ingestion | Not classified for female reproduction | Rat | NOAEL 300 | premating |
| | | | | mg/kg/day | into lactation |
| 4-Methoxyphenol | Ingestion | Not classified for male reproduction | Rat | NOAEL 300 | 28 days |
| | | • | | mg/kg/day | |
| 4-Methoxyphenol | Ingestion | Not classified for development | Rat | NOAEL 200 | during |
| | | • | | mg/kg/day | 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 | |
| 2-PHENOXYETHANOL | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| 4-Methoxyphenol | 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 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 |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Inhalation | respiratory system silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| PHOSPHINE OXIDE, DIPHENYL(2,4,6- TRIMETHYLBENZOYL) | Ingestion | skin blood liver kidney and/or bladder nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |
| OCTAMETHYLCYCLOT ETRASILOXANE | Dermal | hematopoietic system | Not classified | Rabbit | NOAEL 960 mg/kg/day | 3 weeks |
| OCTAMETHYLCYCLOT ETRASILOXANE | Inhalation | liver | Not classified | Rat | NOAEL 8.5 mg/l | 13 weeks |
| OCTAMETHYLCYCLOT ETRASILOXANE | Inhalation | endocrine system immune system kidney and/or bladder | Not classified | Rat | NOAEL 8.5 mg/l | 2 generation |
| OCTAMETHYLCYCLOT ETRASILOXANE | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 8.5 mg/l | 13 weeks |
| OCTAMETHYLCYCLOT ETRASILOXANE | Ingestion | liver | Not classified | Rat | NOAEL 1,600 mg/kg/day | 2 weeks |
| 4-Methoxyphenol | Ingestion | gastrointestinal tract | Not classified | Rat | LOAEL 300 mg/kg/day | 28 days |
| 4-Methoxyphenol | Ingestion | liver immune system | Not classified | Rat | NOAEL 300 mg/kg/day | 28 days |
| 4-Methoxyphenol | Ingestion | kidney and/or | Not classified | Rat | LOAEL 300 | 28 days |

| | | bladder | | | mg/kg/day | |
|-----------------|-----------|--|----------------|-----|------------------------|---------|
| 4-Methoxyphenol | Ingestion | heart endocrine system hematopoietic system nervous system respiratory system | Not classified | Rat | NOAEL 300 mg/kg/day | 28 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

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 | Туре | Exposure | Test Endpoint | Test Result |
|-----------|--------------|-------------|------------------|----------|---------------|-------------|
| PHENOXY | 48145-04-6 | Golden Orfe | Experimental | 96 hours | Lethal | 10 mg/l |
| ETHYL | | | | | Concentration | |
| ACRYLATE | | | | | 50% | |
| PHENOXY | 48145-04-6 | Green algae | Experimental | 72 hours | Effect | 4.4 mg/l |
| ETHYL | | | | | Concentration | |
| ACRYLATE | | | | | 50% | |
| PHENOXY | 48145-04-6 | Water flea | Experimental | 48 hours | Effect | 1.21 mg/l |
| ETHYL | | | | | Concentration | |
| ACRYLATE | | | | | 50% | |
| PHENOXY | 48145-04-6 | Green algae | Experimental | 72 hours | Effect | 0.71 mg/l |
| ETHYL | | | | | Concentration | |
| ACRYLATE | | | | | 10% | |
| METHACRYL | Trade Secret | | Data not | | | |
| ATE | | | available or | | | |
| POLYMER | | | insufficient for | | | |
| | | | classification | | | |
| VINYLCAPR | 2235-00-9 | Green algae | Experimental | 72 hours | Effect | >100 mg/l |
| OLACTAM | | | | | Concentration | |
| | | | | | 50% | |
| VINYLCAPR | 2235-00-9 | Water flea | Experimental | 48 hours | Effect | >100 mg/l |
| OLACTAM | | | | | Concentration | |
| | | | | | 50% | |
| VINYLCAPR | 2235-00-9 | Zebra Fish | Experimental | 96 hours | Lethal | 307 mg/l |

| OLACTAM | | | | | Concentration 50% | |
|---|--------------|-------------------|--|----------|--------------------------------|------------|
| VINYLCAPR OLACTAM | 2235-00-9 | Green algae | Experimental | 72 hours | No obs Effect Conc | 25 mg/l |
| ALIPHATIC URETHANE ACRYLATE | Trade Secret | | Data not available or insufficient for classification | | | |
| 2-HYDROXY- 2-METHYL-1- PHENYL-1- PROPANONE | 7473-98-5 | Green algae | Experimental | 72 hours | Effect Concentration 50% | 1.95 mg/l |
| 2-HYDROXY- 2-METHYL-1- PHENYL-1- PROPANONE | 7473-98-5 | Water flea | Experimental | 48 hours | Effect Concentration 50% | >119 mg/l |
| 2-HYDROXY- 2-METHYL-1- PHENYL-1- PROPANONE | 7473-98-5 | Green algae | Experimental | 72 hours | No obs Effect Conc | 0.194 mg/l |
| 2- PHENOXYET HANOL | 122-99-6 | Fathead Minnow | Experimental | 96 hours | Lethal Concentration 50% | 344 mg/l |
| 2- PHENOXYET HANOL | 122-99-6 | Green algae | Experimental | 72 hours | Effect Concentration 50% | >100 mg/l |
| 2- PHENOXYET HANOL | 122-99-6 | Scud | Experimental | 96 hours | Lethal Concentration 50% | 357 mg/l |
| 2- PHENOXYET HANOL | 122-99-6 | Water flea | Experimental | 48 hours | Effect Concentration 50% | >500 mg/l |
| 2- PHENOXYET HANOL | 122-99-6 | Fathead Minnow | Experimental | 34 days | No obs Effect Conc | 24 mg/l |
| 2- PHENOXYET HANOL | 122-99-6 | Green algae | Experimental | 72 hours | No obs Effect Conc | 46 mg/l |
| 2- PHENOXYET HANOL | 122-99-6 | Water flea | Experimental | 21 days | No obs Effect Conc | 9.43 mg/l |
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE | 7328-17-8 | Golden Orfe | Experimental | 96 hours | Lethal Concentration 50% | 10 mg/l |
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE | 7328-17-8 | Green Algae | Experimental | 72 hours | Effect Concentration 50% | 3.2 mg/l |
| DIETHYLENE GLYCOL ETHYL ETHER | 7328-17-8 | Water flea | Experimental | 48 hours | Effect Concentration 50% | 10.56 mg/l |

| ACRYLATE | | | | | | |
|-----------------|--------------|--------------|--------------|-----------|---------------|--------------|
| | 75980-60-8 | Common Carp | Experimental | 96 hours | Lethal | 1.4 mg/l |
| OXIDE, | , 2, 00 00 0 | | Lapermiental |) IIOUIS | Concentration | 1 |
| DIPHENYL(2, | | | | | 50% | |
| 4,6- | | | | | | |
| TRIMETHYL | | | | | | |
| BENZOYL)- | | | | | | |
| | 75980-60-8 | Green Algae | Experimental | 72 hours | Effect | >2.01 mg/l |
| OXIDE, | 75700 00 0 | Green riigue | Ехрегипения | /2 nours | Concentration | 2.01 mg/1 |
| DIPHENYL(2, | | | | | 50% | |
| 4,6- | | | | | 3070 | |
| TRIMETHYL | | | | | | |
| BENZOYL)- | | | | | | |
| | 75980-60-8 | Water flea | Experimental | 48 hours | Effect | 3.53 mg/l |
| OXIDE, | 73900-00-0 | water fied | Experimental | 40 110013 | Concentration | 3.33 mg/1 |
| DIPHENYL(2, | | | | | 50% | |
| 4,6- | | | | | 3070 | |
| TRIMETHYL | | | | | | |
| BENZOYL)- | | | | | | |
| | 75980-60-8 | Green algae | Experimental | 72 hours | Effect | 1.56 mg/l |
| OXIDE, | /3960-00-6 | Green aigae | Experimental | /2 Hours | Concentration | 1.30 mg/1 |
| DIPHENYL(2, | | | | | 10% | |
| 4,6- | | | | | 1070 | |
| TRIMETHYL | | | | | | |
| BENZOYL)- | | | | | | |
| | 52408-84-1 | Croop algae | Exmanimantal | 72 hours | Effect | 12.2 mg/l |
| TED | 32408-84-1 | Green algae | Experimental | /2 nours | Concentration | 12.2 mg/l |
| GLYCEROL | | | | | 50% | |
| TRIACRYLAT | | | | | 30% | |
| E | | | | | | |
| | 52408-84-1 | Water flea | Exmanimantal | 48 hours | Effect | 01.4 mg/l |
| TED | 32408-84-1 | w ater flea | Experimental | 48 nours | Concentration | 91.4 mg/l |
| GLYCEROL | | | | | 50% | |
| TRIACRYLAT | | | | | 3070 | |
| E | | | | | | |
| | 52408-84-1 | Zebra Fish | Experimental | 96 hours | Lethal | 5.74 mg/l |
| TED | 32408-84-1 | Zeora Fish | Experimentar | 96 Hours | Concentration | 3.74 mg/1 |
| GLYCEROL | | | | | 50% | |
| TRIACRYLAT | | | | | 3070 | |
| | | | | | | |
| E PROPOXYLA | 52408-84-1 | Cassa sless | E-manimantal | 72 h | No obs Effect | 0.021 ====/1 |
| | 32408-84-1 | Green algae | Experimental | 72 hours | | 0.921 mg/l |
| TED GLYCEROL | | | | | Conc | |
| | | | | | | |
| TRIACRYLAT | | | | | | |
| E | 112045 52 5 | C 41 | F | 72 1 | E.CC | > 100 /1 |
| | 112945-52-5 | Green Algae | Experimental | 72 hours | Effect | >100 mg/l |
| AMORPHOUS | | 1 | | | Concentration | |
| SILICA, | | | | | 50% | |
| FUMED, | | | | | | |
| CRYSTALLIN | | 1 | | | | |
| E FREE | 112012 | 7 | | | | |
| | 112945-52-5 | Water flea | Experimental | 24 hours | Effect | >100 mg/l |
| AMORPHOUS | | 1 | | | Concentration | |
| SILICA, | | 1 | | | 50% | |
| FUMED, | | | | | | |

| CRYSTALLIN | | 1 | | | 1 | |
|---|-------------|---------------|--|----------|--------------------------------|-------------|
| E FREE | | | | | | |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLIN | 112945-52-5 | Zebra Fish | Experimental | 96 hours | Lethal Concentration 50% | >100 mg/l |
| E FREE | | | | | | |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLIN E FREE | 112945-52-5 | Green Algae | Experimental | 72 hours | No obs Effect Conc | 60 mg/l |
| TRIMETHYL OLPROPANE ETHOXYLAT E TRIACRYLAT E | 28961-43-5 | | Data not available or insufficient for classification | | | |
| 4- Methoxyphenol | 150-76-5 | Green Algae | Experimental | 72 hours | Effect Concentration 50% | 54.7 mg/l |
| 4- Methoxyphenol | 150-76-5 | Rainbow Trout | Experimental | 96 hours | Lethal Concentration 50% | 28.5 mg/l |
| 4- Methoxyphenol | 150-76-5 | Water flea | Experimental | 48 hours | Effect Concentration 50% | 2.2 mg/l |
| 4- Methoxyphenol | 150-76-5 | Green Algae | Experimental | 72 hours | No obs Effect Conc | 2.96 mg/l |
| 4- Methoxyphenol | 150-76-5 | Water flea | Experimental | 21 days | No obs Effect Conc | 0.68 mg/l |
| | 556-67-2 | Rainbow Trout | Experimental | 93 days | No obs Effect Conc | 0.0044 mg/l |
| OCTAMETHY LCYCLOTET RASILOXAN E | 556-67-2 | Water flea | Experimental | 21 days | No obs Effect Conc | 0.0079 mg/l |

12.2. Persistence and degradability

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|-----------|--------------|----------------|----------|------------------|--------------|--------------------|
| PHENOXY | 48145-04-6 | Estimated | | Photolytic half- | 9.7 hours (t | Other methods |
| ETHYL | | Photolysis | | life (in air) | 1/2) | |
| ACRYLATE | | | | | · | |
| PHENOXY | 48145-04-6 | Experimental | 28 days | Biological | 22.3 % | OECD 301D - Closed |
| ETHYL | | Biodegradation | | Oxygen | BOD/ThBOD | Bottle Test |
| ACRYLATE | | | | Demand | | |
| METHACRYL | Trade Secret | Data not | | | N/A | |
| ATE | | availbl- | | | | |
| POLYMER | | insufficient | | | | |
| VINYLCAPR | 2235-00-9 | Experimental | 28 days | Dissolv. | 30-40 % | OECD 301A - DOC |

| OLACTAM | | Biodegradation | | Organic Carbon Deplet | weight | Die Away Test |
|--|--------------|--------------------------------------|---------|-----------------------------------|--|-----------------------------------|
| ALIPHATIC URETHANE ACRYLATE | Trade Secret | Data not availbl-insufficient | | | N/A | |
| 2-HYDROXY- 2-METHYL-1- PHENYL-1- PROPANONE | 7473-98-5 | Experimental Biodegradation | 28 days | Carbon dioxide evolution | 90 % weight | OECD 301B - Mod. Sturm or CO2 |
| 2- PHENOXYET HANOL | 122-99-6 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | 90 % BOD/ThBOD | OECD 301F - Manometric Respiro |
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE | 7328-17-8 | Experimental Biodegradation | 28 days | Carbon dioxide evolution | 98 %CO2 evolution/THC O2 evolution | OECD 301B - Mod. Sturm or CO2 |
| PHOSPHINE OXIDE, DIPHENYL(2, 4,6- TRIMETHYL BENZOYL)- | 75980-60-8 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | ≤10 % BOD/ThBOD | OECD 301F - Manometric Respiro |
| PROPOXYLA TED GLYCEROL TRIACRYLAT E | 52408-84-1 | Experimental Biodegradation | 28 days | Carbon dioxide evolution | 72-85 % weight | OECD 301B - Mod. Sturm or CO2 |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLIN E FREE | 112945-52-5 | Data not availbl- insufficient | | | N/A | |
| TRIMETHYL OLPROPANE ETHOXYLAT E TRIACRYLAT E | 28961-43-5 | Experimental Biodegradation | 28 days | Carbon dioxide evolution | 58-61 % weight | OECD 301B - Mod. Sturm or CO2 |
| 4- Methoxyphenol | 150-76-5 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | 86 % BOD/ThBOD | OECD 301C - MITI (I) |
| OCTAMETHY LCYCLOTET RASILOXAN E | 556-67-2 | Experimental Photolysis | | Photolytic half- life (in air) | 31 days (t 1/2) | Other methods |
| OCTAMETHY LCYCLOTET RASILOXAN E | 556-67-2 | Experimental Hydrolysis | | Hydrolytic half-life | 69.3-144 hours (t 1/2) | Other methods |
| OCTAMETHY LCYCLOTET RASILOXAN E | 556-67-2 | Experimental Biodegradation | 28 days | Carbon dioxide evolution | 3.7 % weight | OECD 310 CO2 Headspace |

12.3. Bioaccumulative potential

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|--|--------------|--|----------|--------------------------------------|-------------|---------------------------------|
| PHENOXY ETHYL ACRYLATE | 48145-04-6 | Experimental Bioconcentrati on | | Log of Octanol/H2O part. coeff | 2.58 | Other methods |
| METHACRYL ATE POLYMER | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| VINYLCAPR OLACTAM | 2235-00-9 | Experimental Bioconcentrati on | | Log of Octanol/H2O part. coeff | 1.2 | Other methods |
| ALIPHATIC URETHANE ACRYLATE | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 2-HYDROXY- 2-METHYL-1- PHENYL-1- PROPANONE | 7473-98-5 | Experimental Bioconcentrati on | | Log of Octanol/H2O part. coeff | 1.62 | Other methods |
| 2- PHENOXYET HANOL | 122-99-6 | Experimental Bioconcentrati on | | Log of Octanol/H2O part. coeff | 1.2 | EC A.8 Partition Coefficient |
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE | 7328-17-8 | Experimental Bioconcentrati on | | Log of Octanol/H2O part. coeff | 1.105 | Other methods |
| PHOSPHINE OXIDE, DIPHENYL(2, 4,6- TRIMETHYL BENZOYL)- | 75980-60-8 | Experimental BCF-Carp | 56 days | Bioaccumulatio n Factor | ≤40 | |
| PROPOXYLA TED GLYCEROL TRIACRYLAT E | 52408-84-1 | Experimental Bioconcentrati on | | Log of Octanol/H2O part. coeff | 2.52 | Other methods |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLIN E FREE | 112945-52-5 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| TRIMETHYL OLPROPANE ETHOXYLAT E TRIACRYLAT E | 28961-43-5 | Experimental Bioconcentrati on | | Log of Octanol/H2O part. coeff | 2.89 | Other methods |
| 4- Methoxyphenol | 150-76-5 | Experimental Bioconcentrati | | Log of Octanol/H2O | 1.58 | Other methods |

| | | on | | part. coeff | | |
|-----------|----------|---------------|---------|----------------|-------|---------------|
| OCTAMETHY | 556-67-2 | Experimental | 28 days | Bioaccumulatio | 12400 | Other methods |
| LCYCLOTET | | BCF - Fathead | - | n Factor | | |
| RASILOXAN | | Mi | | | | |
| Е | | | | | | |

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: None assigned.

Proper Shipping Name: None assigned.

Technical Name: None assigned.

Hazard Class/Division: None assigned.

Subsidiary Risk: None assigned.

Packing Group: None assigned.

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: None assigned.

Proper Shipping Name: None assigned.

Technical Name: None assigned.

Hazard Class/Division: None assigned.

Subsidiary Risk: None assigned.

Packing Group: None assigned.

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

SECTION 16: Other information

DISCLAIMER: The information on this Safety Data Sheet 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 Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

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