



## 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™ Perfect-It™ 3000 Trizact™ Spot Finishing Material PN 6070 , 6071, 6056, 39020

#### Product Identification Numbers

60-9801-0915-5 XS-0414-1665-1

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

##### Recommended use

Automotive, Removal of Imperfections From Painted Surface

#### 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

Chronic Aquatic Toxicity: Category 3.

#### 2.2. Label elements

##### Signal word

Not applicable.

##### Symbols

Not applicable.

##### Pictograms

Not applicable

**Hazard Statements**

H412 Harmful 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:**

P280B Wear protective gloves and eye/face protection.

**Disposal:**

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

**2.3. Other hazards**

Repeated exposure may cause skin dryness or cracking.

**SECTION 3: Composition/information on ingredients**

This material is a mixture.

<b>Ingredient</b>	<b>C.A.S. No.</b>	<b>% by Wt</b>
Water	7732-18-5	50 - 70
Aluminum Oxide	1344-28-1	10 - 30
HYDROTREATED LIGHT PETROLEUM DISTILLATES	64742-47-8	7 - 13
DECAMETHYLCYCLOPENTASILOXANE	541-02-6	3 - 7
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	64742-48-9	3 - 7
DODECAMETHYLCYCLOHEXASILOXANE	540-97-6	1 - 5
GLYCERIN	56-81-5	< 5
Solvent dewaxed heavy paraffinic distillate (petroleum)	64742-65-0	0.1 - 1
Hydrotreated light paraffinic distillates (petroleum)	64742-55-8	< 0.5
SOLVENT DEWAXED LIGHT PARAFFINIC DISTILLATES (PETROLEUM)	64742-56-9	< 0.5
Acrylic Polymer	Trade Secret	0.406 0.434
Triethanolamine	102-71-6	0.328 0.348 (typically 0.34)
POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-UNDECYL-.OMEGA.-HYDROXY-	34398-01-1	0.25 (typically 0.25)
1,2-BENZISOTHIAZOLIN-3-ONE	2634-33-5	0.0259375 0.0263125

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**Inhalation:**

No need for first aid is anticipated.

**Skin Contact:**

Wash with soap and water. If signs/symptoms develop, get medical attention.

**Eye Contact:**

No need for first aid is anticipated.

**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 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**

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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

**6.3. Methods and material for containment and cleaning up**

Contain spill. 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 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**

Avoid eye contact. Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

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

Store in a well-ventilated place. Keep cool. Store away from acids. Store away from oxidizing agents.

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

#### **Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

<b>Ingredient</b>	<b>C.A.S. No.</b>	<b>Agency</b>	<b>Limit type</b>	<b>Additional Comments</b>
Triethanolamine	102-71-6	ACGIH	TWA:5 mg/m3	
Triethanolamine	102-71-6	Malaysia OELs	TWA(8 hours):5 mg/m3	
Aluminum Oxide	1344-28-1	Malaysia OELs	TWA (proposed)(8 hours):10 mg/m3	
Aluminum, insoluble compounds	1344-28-1	ACGIH	TWA(respirable fraction):1 mg/m3	A4: Not class. as human carcin
DUST, INERT OR NUISANCE	1344-28-1	Malaysia OELs	TWA (proposed)(Inhalable particulate)(8 hours):10 mg/m3;TWA (proposed)(respirable particles)(8 hours):3 mg/m3	
GLYCERIN	56-81-5	Malaysia OELs	TWA(as mist)(8 hours):10 mg/m3	
Kerosine (petroleum)	64742-47-8	ACGIH	TWA(as total hydrocarbon vapor, non-aerosol):200 mg/m3	A3: Confirmed animal carcin., SKIN
Mineral oils (untreated and mildly treated)	64742-55-8	ACGIH	Limit value not established:	A2: Suspected human carcin., Cntrl all expos-low as possib
OIL MIST, MINERAL	64742-55-8	Malaysia OELs	TWA(as mist)(8 hours):5 mg/m3	
Mineral oils (untreated and mildly treated)	64742-56-9	ACGIH	Limit value not established:	A2: Suspected human carcin., Cntrl all expos-low as possib
MINERAL OILS, HIGHLY-REFINED OILS	64742-56-9	ACGIH	TWA(inhalable fraction):5 mg/m3	A4: Not class. as human carcin
OIL MIST, MINERAL	64742-56-9	Malaysia OELs	TWA(as mist)(8 hours):5 mg/m3	
OIL MIST, MINERAL	64742-65-0	Malaysia OELs	TWA(as mist)(8 hours):5 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**

No engineering controls required.

**8.2.2. Personal protective equipment (PPE)**

**Eye/face protection**

None required.

**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.

Gloves made from the following material(s) are recommended: Butyl Rubber

Nitrile Rubber

Natural Rubber

**Respiratory protection**

None required.

**SECTION 9: Physical and chemical properties**

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

<b>Physical state</b>	Liquid
<b>Specific Physical Form:</b>	Emulsion
<b>Color</b>	Gray
<b>Odor</b>	Petroleum
<b>Odor threshold</b>	<i>No Data Available</i>
<b>pH</b>	7.5 - 8.5
<b>Melting point/Freezing point</b>	<i>No Data Available</i>
<b>Boiling point/Initial boiling point/Boiling range</b>	190.6 °C
<b>Flash Point</b>	77.2 °C [ <i>Test Method:Closed Cup</i> ]
<b>Evaporation rate</b>	<i>No Data Available</i>
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Flammable Limits(LEL)</b>	<i>No Data Available</i>
<b>Flammable Limits(UEL)</b>	<i>No Data Available</i>
<b>Vapor Pressure</b>	<i>No Data Available</i>
<b>Vapor Density</b>	<i>No Data Available</i>
<b>Density</b>	0.958 g/ml
<b>Relative Density</b>	0.958 [ <i>Ref Std:WATER=1</i> ]
<b>Water solubility</b>	Negligible
<b>Solubility- non-water</b>	<i>No Data Available</i>
<b>Partition coefficient: n-octanol/ water</b>	<i>No Data Available</i>
<b>Autoignition temperature</b>	<i>No Data Available</i>
<b>Decomposition temperature</b>	<i>No Data Available</i>
<b>Viscosity</b>	12,000 - 16,000 mPa-s [ <i>Test Method:Brookfield</i> ]
<b>Molecular weight</b>	<i>No Data Available</i>
<b>Volatile Organic Compounds</b>	<= 15 % weight [ <i>Test Method:calculated per CARB title 2</i> ]

<b>Volatile Organic Compounds</b>	135 g/l [ <i>Test Method</i> :calculated SCAQMD rule 443.1]
<b>Percent volatile</b>	80 % weight
<b>VOC Less H2O &amp; Exempt Solvents</b>	366 g/l [ <i>Test Method</i> :calculated SCAQMD rule 443.1]

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
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:**

No known health effects.

#### **Skin Contact:**

Dermal Defatting: Signs/symptoms may include localized redness, itching, drying and cracking of skin.

#### **Eye Contact:**

Contact with the eyes during product use is not expected to result in significant irritation.

#### **Ingestion:**

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

### 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	Ingestion		No data available; calculated ATE >5,000 mg/kg
Aluminum Oxide	Dermal		LD50 estimated to be > 5,000 mg/kg
Aluminum Oxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.3 mg/l
Aluminum Oxide	Ingestion	Rat	LD50 > 5,000 mg/kg
HYDROTREATED LIGHT PETROLEUM DISTILLATES	Inhalation-Vapor	Professional judgment	LC50 estimated to be 20 - 50 mg/l
HYDROTREATED LIGHT PETROLEUM DISTILLATES	Dermal	Rabbit	LD50 > 5,000 mg/kg
HYDROTREATED LIGHT PETROLEUM DISTILLATES	Ingestion	Rat	LD50 > 5,000 mg/kg
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	Inhalation-Vapor	Professional judgment	LC50 estimated to be 20 - 50 mg/l
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	Dermal	Rabbit	LD50 > 5,000 mg/kg
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	Ingestion	Rat	LD50 > 5,000 mg/kg
DECAMETHYLCYCLOPENTASILOXANE	Dermal	Rabbit	LD50 > 15,000 mg/kg
DECAMETHYLCYCLOPENTASILOXANE	Inhalation-Dust/Mist (4 hours)	Rat	LC50 8.7 mg/l
DECAMETHYLCYCLOPENTASILOXANE	Ingestion	Rat	LD50 > 24,134 mg/kg
GLYCERIN	Dermal	Rabbit	LD50 estimated to be > 5,000 mg/kg
GLYCERIN	Ingestion	Rat	LD50 > 5,000 mg/kg
DODECAMETHYLCYCLOHEXASILOXANE	Dermal	Rat	LD50 > 2,000 mg/kg
DODECAMETHYLCYCLOHEXASILOXANE	Ingestion	Rat	LD50 > 50,000 mg/kg
Solvent dewaxed heavy paraffinic distillate (petroleum)	Dermal	Rabbit	LD50 > 5,000 mg/kg
Solvent dewaxed heavy paraffinic distillate (petroleum)	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 4 mg/l
Solvent dewaxed heavy paraffinic distillate (petroleum)	Ingestion	Rat	LD50 > 5,000 mg/kg
SOLVENT DEWAXED LIGHT PARAFFINIC DISTILLATES (PETROLEUM)	Dermal	Rabbit	LD50 > 5,000 mg/kg
SOLVENT DEWAXED LIGHT PARAFFINIC DISTILLATES (PETROLEUM)	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 4 mg/l
SOLVENT DEWAXED LIGHT PARAFFINIC DISTILLATES (PETROLEUM)	Ingestion	Rat	LD50 > 5,000 mg/kg
Triethanolamine	Dermal	Rabbit	LD50 > 2,000 mg/kg
Triethanolamine	Ingestion	Rat	LD50 9,000 mg/kg
POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-UNDECYL-.OMEGA.-HYDROXY-	Dermal	Rabbit	LD50 > 2,000 mg/kg
POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-UNDECYL-.OMEGA.-HYDROXY-	Ingestion	Rat	LD50 > 700 mg/kg
1,2-BENZISOTHIAZOLIN-3-ONE	Dermal	Rat	LD50 > 2,000 mg/kg
1,2-BENZISOTHIAZOLIN-3-ONE	Ingestion	Rat	LD50 454 mg/kg

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Name	Species	Value
Aluminum Oxide	Rabbit	No significant irritation
HYDROTREATED LIGHT PETROLEUM DISTILLATES	Rabbit	Minimal irritation
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	Rabbit	Mild irritant
DECAMETHYLCYCLOPENTASILOXANE	Rabbit	No significant irritation
GLYCERIN	Rabbit	No significant irritation
DODECAMETHYLCYCLOHEXASILOXANE	Rabbit	No significant irritation

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SOLVENT DEWAXED LIGHT PARAFFINIC DISTILLATES (PETROLEUM)	Rabbit	Minimal irritation
Triethanolamine	Rabbit	Minimal irritation
POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-UNDECYL-.OMEGA.-HYDROXY-	similar health hazards	Irritant
1,2-BENZISOTHIAZOLIN-3-ONE	Rabbit	No significant irritation

**Serious Eye Damage/Irritation**

Name	Species	Value
Aluminum Oxide	Rabbit	No significant irritation
HYDROTREATED LIGHT PETROLEUM DISTILLATES	Rabbit	Mild irritant
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	Rabbit	Mild irritant
DECAMETHYLCYCLOPENTASILOXANE	Rabbit	No significant irritation
GLYCERIN	Rabbit	No significant irritation
DODECAMETHYLCYCLOHEXASILOXANE	Rabbit	No significant irritation
SOLVENT DEWAXED LIGHT PARAFFINIC DISTILLATES (PETROLEUM)	Rabbit	No significant irritation
Triethanolamine	Rabbit	Mild irritant
POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-UNDECYL-.OMEGA.-HYDROXY-	Professional judgement	Corrosive
1,2-BENZISOTHIAZOLIN-3-ONE	Rabbit	Corrosive

**Skin Sensitization**

Name	Species	Value
HYDROTREATED LIGHT PETROLEUM DISTILLATES	Guinea pig	Not classified
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	Guinea pig	Not classified
DECAMETHYLCYCLOPENTASILOXANE	Mouse	Not classified
GLYCERIN	Guinea pig	Not classified
SOLVENT DEWAXED LIGHT PARAFFINIC DISTILLATES (PETROLEUM)	Guinea pig	Not classified
Triethanolamine	Human	Not classified
1,2-BENZISOTHIAZOLIN-3-ONE	Guinea pig	Sensitizing

**Respiratory Sensitization**

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

**Germ Cell Mutagenicity**

Name	Route	Value
Aluminum Oxide	In Vitro	Not mutagenic
HYDROTREATED LIGHT PETROLEUM DISTILLATES	In Vitro	Not mutagenic
HYDROTREATED LIGHT PETROLEUM DISTILLATES	In vivo	Not mutagenic
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	In Vitro	Not mutagenic
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	In vivo	Not mutagenic
DECAMETHYLCYCLOPENTASILOXANE	In Vitro	Not mutagenic
DECAMETHYLCYCLOPENTASILOXANE	In vivo	Not mutagenic
SOLVENT DEWAXED LIGHT PARAFFINIC DISTILLATES (PETROLEUM)	In vivo	Not mutagenic
SOLVENT DEWAXED LIGHT PARAFFINIC DISTILLATES (PETROLEUM)	In Vitro	Some positive data exist, but the data are not sufficient for classification
Triethanolamine	In Vitro	Not mutagenic
Triethanolamine	In vivo	Not mutagenic
1,2-BENZISOTHIAZOLIN-3-ONE	In vivo	Not mutagenic
1,2-BENZISOTHIAZOLIN-3-ONE	In Vitro	Some positive data exist, but the data are not sufficient for classification

**Carcinogenicity**



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Name	Route	Species	Value
Aluminum Oxide	Inhalation	Rat	Not carcinogenic
HYDROTREATED LIGHT PETROLEUM DISTILLATES	Not Specified	Not available	Not carcinogenic
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	Not Specified	Not available	Not carcinogenic
DECAMETHYLCYCLOPENTASILOXANE	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
GLYCERIN	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification
SOLVENT DEWAXED LIGHT PARAFFINIC DISTILLATES (PETROLEUM)	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Triethanolamine	Dermal	Multiple animal species	Not carcinogenic
Triethanolamine	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test Result	Exposure Duration
HYDROTREATED LIGHT PETROLEUM DISTILLATES	Not Specified	Not classified for female reproduction	Rat	NOAEL Not available	1 generation
HYDROTREATED LIGHT PETROLEUM DISTILLATES	Not Specified	Not classified for male reproduction	Rat	NOAEL Not available	1 generation
HYDROTREATED LIGHT PETROLEUM DISTILLATES	Not Specified	Not classified for development	Rat	NOAEL Not available	1 generation
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	Not Specified	Not classified for female reproduction	Rat	NOAEL Not available	prematuring & during gestation
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	Not Specified	Not classified for male reproduction	Rat	NOAEL Not available	28 days
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	Not Specified	Not classified for development	Rat	NOAEL Not available	during gestation
DECAMETHYLCYCLOPENTASILOXANE	Inhalation	Not classified for female reproduction	Rat	NOAEL 2.43 mg/l	2 generation
DECAMETHYLCYCLOPENTASILOXANE	Inhalation	Not classified for male reproduction	Rat	NOAEL 2.43 mg/l	2 generation
DECAMETHYLCYCLOPENTASILOXANE	Inhalation	Not classified for development	Rat	NOAEL 2.43 mg/l	2 generation
GLYCERIN	Ingestion	Not classified for female reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
GLYCERIN	Ingestion	Not classified for male reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
GLYCERIN	Ingestion	Not classified for development	Rat	NOAEL 2,000 mg/kg/day	2 generation
DODECAMETHYLCYCLOHEXASILOXANE	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	prematuring & during gestation
DODECAMETHYLCYCLOHEXASILOXANE	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	28 days
DODECAMETHYLCYCLOHEXASILOXANE	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	prematuring & during gestation
Triethanolamine	Ingestion	Not classified for development	Mouse	NOAEL 1,125 mg/kg/day	during organogenesis
1,2-BENZISOTHIAZOLIN-3-ONE	Ingestion	Not classified for female reproduction	Rat	NOAEL 112 mg/kg/day	2 generation
1,2-BENZISOTHIAZOLIN-3-ONE	Ingestion	Not classified for male reproduction	Rat	NOAEL 112 mg/kg/day	2 generation

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				mg/kg/day	
1,2-BENZISOTHIAZOLIN-3-ONE	Ingestion	Not classified for development	Rat	NOAEL 112 mg/kg/day	2 generation

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-UNDECYL-.OMEGA.-HYDROXY-	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
1,2-BENZISOTHIAZOLIN-3-ONE	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
Aluminum Oxide	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Aluminum Oxide	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure
DECAMETHYLCYCLOPENTASILOXANE	Dermal	hematopoietic system   eyes	Not classified	Rat	NOAEL 1,600 mg/kg/day	28 days
DECAMETHYLCYCLOPENTASILOXANE	Inhalation	hematopoietic system   respiratory system   liver   eyes   kidney and/or bladder	Not classified	Rat	NOAEL 2.42 mg/l	2 years
DECAMETHYLCYCLOPENTASILOXANE	Ingestion	liver   immune system   respiratory system   heart   hematopoietic system   kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
GLYCERIN	Inhalation	respiratory system   heart   liver   kidney and/or bladder	Not classified	Rat	NOAEL 3.91 mg/l	14 days
GLYCERIN	Ingestion	endocrine system   hematopoietic system   liver   kidney and/or bladder	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
DODECAMETHYLCYCLOHEXASILOXANE	Ingestion	endocrine system   liver   respiratory system   nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
SOLVENT DEWAXED LIGHT PARAFFINIC DISTILLATES (PETROLEUM)	Dermal	hematopoietic system   liver   kidney and/or bladder	Not classified	Rabbit	NOAEL 5,000 mg/kg/day	3 weeks
Triethanolamine	Dermal	kidney and/or bladder	Not classified	Multiple animal species	NOAEL 2,000 mg/kg/day	2 years
Triethanolamine	Dermal	liver	Not classified	Mouse	NOAEL 4,000 mg/kg/day	13 weeks
Triethanolamine	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 1,000 mg/kg/day	2 years
Triethanolamine	Ingestion	liver	Not classified	Guinea pig	NOAEL 1,600 mg/kg/day	24 weeks

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1,2-BENZISOTHIAZOLIN-3-ONE	Ingestion	liver   hematopoietic system   eyes   kidney and/or bladder   respiratory system	Not classified	Rat	NOAEL 322 mg/kg/day	90 days
1,2-BENZISOTHIAZOLIN-3-ONE	Ingestion	heart   endocrine system   nervous system	Not classified	Rat	NOAEL 150 mg/kg/day	28 days

**Aspiration Hazard**

Name	Value
HYDROTREATED LIGHT PETROLEUM DISTILLATES	Aspiration hazard
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	Aspiration hazard
SOLVENT DEWAXED LIGHT PARAFFINIC DISTILLATES (PETROLEUM)	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 3: Harmful to aquatic life.

**Chronic aquatic hazard:**

GHS Chronic 3: Harmful to aquatic life with long lasting effects

No product test data available

Material	Cas #	Organism	Type	Exposure	Test Endpoint	Test Result
Aluminum Oxide	1344-28-1	Fish	Experimental	96 hours	Lethal Concentration 50%	>100 mg/l
Aluminum Oxide	1344-28-1	Green Algae	Experimental	72 hours	Effect Concentration 50%	>100 mg/l
Aluminum Oxide	1344-28-1	Water flea	Experimental	48 hours	Lethal Concentration 50%	>100 mg/l
Aluminum Oxide	1344-28-1	Green Algae	Experimental	72 hours	No obs Effect Conc	>100 mg/l
HYDROTREATED LIGHT PETROLEUM DISTILLATES	64742-47-8	Green Algae	Experimental	72 hours	Effect Level 50%	>1,000 mg/l
HYDROTREATED LIGHT PETROLEUM DISTILLATES	64742-47-8	Rainbow Trout	Experimental	96 hours	Lethal Level 50%	>1,000 mg/l
HYDROTREA	64742-47-8	Water flea	Experimental	48 hours	Effect Level	>1,000 mg/l

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TED LIGHT PETROLEUM DISTILLATES					50%	
HYDROTREA TED LIGHT PETROLEUM DISTILLATES	64742-47-8	Green Algae	Experimental	72 hours	No obs Effect Level	1,000 mg/l
DECAMETHY LCYCLOPEN TASILOXANE	541-02-6	Green Algae	Experimental	96 hours	Effect Concentration 50%	>100 mg/l
DECAMETHY LCYCLOPEN TASILOXANE	541-02-6	Rainbow Trout	Experimental	96 hours	Lethal Concentration 50%	>100 mg/l
DECAMETHY LCYCLOPEN TASILOXANE	541-02-6	Water flea	Experimental	48 hours	Effect Concentration 50%	>100 mg/l
DECAMETHY LCYCLOPEN TASILOXANE	541-02-6	Green Algae	Experimental	96 hours	No obs Effect Conc	>100 mg/l
DECAMETHY LCYCLOPEN TASILOXANE	541-02-6	Rainbow Trout	Experimental	90 days	No obs Effect Conc	>100 mg/l
DECAMETHY LCYCLOPEN TASILOXANE	541-02-6	Water flea	Experimental	21 days	No obs Effect Conc	>100 mg/l
HYDROTREA TED HEAVY NAPHTHA (PETROLEUM )	64742-48-9	Green Algae	Estimated	72 hours	Effect Level 50%	>1,000 mg/l
HYDROTREA TED HEAVY NAPHTHA (PETROLEUM )	64742-48-9	Rainbow Trout	Estimated	96 hours	Lethal Level 50%	>1,000 mg/l
HYDROTREA TED HEAVY NAPHTHA (PETROLEUM )	64742-48-9	Water flea	Estimated	48 hours	Effect Level 50%	>1,000 mg/l
HYDROTREA TED HEAVY NAPHTHA (PETROLEUM )	64742-48-9	Green Algae	Estimated	72 hours	No obs Effect Level	1,000 mg/l
HYDROTREA TED HEAVY NAPHTHA (PETROLEUM )	64742-48-9	Water flea	Estimated	21 days	No obs Effect Level	>1 mg/l
DODECAMET HYLCYCLOH EXASILOXA NE	540-97-6	Green algae	Experimental	72 hours	Effect Concentration 50%	>100 mg/l
DODECAMET	540-97-6	Fathead	Experimental	49 days	No obs Effect	>100 mg/l

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HYLCYCLOH EXASILOXA NE		Minnow			Conc	
DODECAMET HYLCYCLOH EXASILOXA NE	540-97-6	Green algae	Experimental	72 hours	No obs Effect Conc	>100 mg/l
DODECAMET HYLCYCLOH EXASILOXA NE	540-97-6	Water flea	Experimental	21 days	No obs Effect Conc	>100 mg/l
GLYCERIN	56-81-5	Rainbow Trout	Experimental	96 hours	Lethal Concentration 50%	54,000 mg/l
GLYCERIN	56-81-5	Water flea	Experimental	48 hours	Lethal Concentration 50%	1,955 mg/l
Solvent dewaxed heavy paraffinic distillate (petroleum)	64742-65-0	Green algae	Estimated	96 hours	Effect Concentration 50%	>100 mg/l
Solvent dewaxed heavy paraffinic distillate (petroleum)	64742-65-0	Water flea	Estimated	48 hours	Effect Concentration 50%	>100 mg/l
Solvent dewaxed heavy paraffinic distillate (petroleum)	64742-65-0	Rainbow Trout	Experimental	96 hours	Lethal Concentration 50%	>100 mg/l
Solvent dewaxed heavy paraffinic distillate (petroleum)	64742-65-0	Water flea	Experimental	21 days	No obs Effect Conc	100 mg/l
Hydrotreated light paraffinic distillates (petroleum)	64742-55-8	Fathead Minnow	Estimated	96 hours	Lethal Level 50%	>100 mg/l
Hydrotreated light paraffinic distillates (petroleum)	64742-55-8	Water flea	Estimated	48 hours	Effect Level 50%	>100 mg/l
Hydrotreated light paraffinic distillates (petroleum)	64742-55-8	Green Algae	Estimated	72 hours	No obs Effect Level	100 mg/l
Hydrotreated light paraffinic distillates (petroleum)	64742-55-8	Water flea	Estimated	21 days	No obs Effect Conc	10 mg/l
SOLVENT DEWAXED	64742-56-9	Fathead Minnow	Estimated	96 hours	Lethal Level 50%	>100 mg/l

LIGHT PARAFFINIC DISTILLATES (PETROLEUM )						
SOLVENT DEWAXED LIGHT PARAFFINIC DISTILLATES (PETROLEUM )	64742-56-9	Green algae	Estimated	72 hours	Effect Level 50%	>100 mg/l
SOLVENT DEWAXED LIGHT PARAFFINIC DISTILLATES (PETROLEUM )	64742-56-9	Water flea	Estimated	48 hours	Effect Level 50%	>100 mg/l
SOLVENT DEWAXED LIGHT PARAFFINIC DISTILLATES (PETROLEUM )	64742-56-9	Green algae	Estimated	72 hours	No obs Effect Level	>100 mg/l
SOLVENT DEWAXED LIGHT PARAFFINIC DISTILLATES (PETROLEUM )	64742-56-9	Water flea	Estimated	21 days	No obs Effect Level	>100 mg/l
Acrylic Polymer	Trade Secret		Data not available or insufficient for classification			
Triethanolamin e	102-71-6	Fathead Minnow	Experimental	96 hours	Lethal Concentration 50%	11,800 mg/l
Triethanolamin e	102-71-6	Green algae	Experimental	72 hours	Effect Concentration 50%	512 mg/l
Triethanolamin e	102-71-6	Water flea	Experimental	48 hours	Effect Concentration 50%	609.98 mg/l
Triethanolamin e	102-71-6	Green Algae	Experimental	72 hours	Effect Concentration 10%	26 mg/l
Triethanolamin e	102-71-6	Water flea	Experimental	21 days	No obs Effect Conc	16 mg/l
POLY(OXY- 1,2- ETHANEDIY L),.ALPHA.-	34398-01-1	Fathead Minnow	Experimental	96 hours	Lethal Concentration 50%	1.63 mg/l

UNDECYL-O MEGA.- HYDROXY-						
POLY(OXY- 1,2- ETHANEDIY L),.ALPHA.- UNDECYL-O MEGA.- HYDROXY-	34398-01-1	Green algae	Experimental	96 hours	Effect Concentration 50%	2.9 mg/l
POLY(OXY- 1,2- ETHANEDIY L),.ALPHA.- UNDECYL-O MEGA.- HYDROXY-	34398-01-1	Water flea	Experimental	48 hours	Effect Concentration 50%	2.1 mg/l
POLY(OXY- 1,2- ETHANEDIY L),.ALPHA.- UNDECYL-O MEGA.- HYDROXY-	34398-01-1	Fathead Minnow	Experimental	30 days	No obs Effect Conc	0.73 mg/l
POLY(OXY- 1,2- ETHANEDIY L),.ALPHA.- UNDECYL-O MEGA.- HYDROXY-	34398-01-1	Green algae	Experimental	96 hours	No obs Effect Conc	1.2 mg/l
1,2- BENZISOTHI AZOLIN-3- ONE	2634-33-5	Green algae	Experimental	72 hours	Effect Concentration 50%	0.11 mg/l
1,2- BENZISOTHI AZOLIN-3- ONE	2634-33-5	Pacific oyster	Experimental	48 hours	Effect Concentration 50%	0.062 mg/l
1,2- BENZISOTHI AZOLIN-3- ONE	2634-33-5	Rainbow Trout	Experimental	96 hours	Lethal Concentration 50%	1.6 mg/l
1,2- BENZISOTHI AZOLIN-3- ONE	2634-33-5	Water flea	Experimental	48 hours	Effect Concentration 50%	2.9 mg/l
1,2- BENZISOTHI AZOLIN-3- ONE	2634-33-5	Green algae	Experimental	72 hours	No obs Effect Conc	0.0403 mg/l

## 12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
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Aluminum Oxide	1344-28-1	Data not availbl- insufficient			N/A	
HYDROTREA TED LIGHT PETROLEUM DISTILLATES	64742-47-8	Estimated Biodegradation	28 days	Biological Oxygen Demand	69 % BOD/ThBOD	OECD 301F - Manometric Respiro
DECAMETHY LCYCLOPEN TASILOXANE	541-02-6	Experimental Photolysis		Photolytic half- life (in air)	20.4 days (t 1/2)	Other methods
DECAMETHY LCYCLOPEN TASILOXANE	541-02-6	Experimental Hydrolysis		Hydrolytic half-life	66 days (t 1/2)	Other methods
DECAMETHY LCYCLOPEN TASILOXANE	541-02-6	Experimental Biodegradation	28 days	Carbon dioxide evolution	0.14 % weight	OECD 310 CO2 Headspace
HYDROTREA TED HEAVY NAPHTHA (PETROLEUM )	64742-48-9	Estimated Biodegradation	28 days	Biological Oxygen Demand	31.3 % BOD/ThBOD	OECD 301F - Manometric Respiro
DODECAMET HYLCYCLOH EXASILOXA NE	540-97-6	Experimental Biodegradation	28 days	Carbon dioxide evolution	4.47 % weight	OECD 310 CO2 Headspace
GLYCERIN	56-81-5	Experimental Biodegradation	14 days	Biological Oxygen Demand	63 % BOD/ThBOD	OECD 301C - MITI (I)
Solvent dewaxed heavy paraffinic distillate (petroleum)	64742-65-0	Experimental Biodegradation	28 days	Carbon dioxide evolution	23 % weight	Other methods
Hydrotreated light paraffinic distillates (petroleum)	64742-55-8	Estimated Biodegradation	28 days	Carbon dioxide evolution	22 %CO2 evolution/THC O2 evolution	OECD 301B - Mod. Sturm or CO2
SOLVENT DEWAXED LIGHT PARAFFINIC DISTILLATES (PETROLEUM )	64742-56-9	Estimated Aquatic Biodegrad. - Aerobic	28 days	Biological Oxygen Demand	31 % weight	OECD 301F - Manometric Respiro
Acrylic Polymer	Trade Secret	Data not availbl- insufficient			N/A	
Triethanolamin e	102-71-6	Experimental Biodegradation	19 days	Dissolv. Organic Carbon Deplet	96 % weight	Other methods
POLY(OXY- 1,2- ETHANEDIY L),.ALPHA.- UNDECYL-O	34398-01-1	Experimental Biodegradation	28 days	Biological Oxygen Demand	80 % weight	OECD 301D - Closed Bottle Test



MEGA.- HYDROXY-						
1,2- BENZISOTHI AZOLIN-3- ONE	2634-33-5	Experimental Biodegradation	28 days	Biological Oxygen Demand	0 % BOD/ThBOD	OECD 301C - MITI (I)

### 12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Aluminum Oxide	1344-28-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
HYDROTREA TED LIGHT PETROLEUM DISTILLATES	64742-47-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
DECAMETHY LCYCLOPEN TASILOXANE	541-02-6	Experimental BCF - Fathead Mi	35 days	Bioaccumulatio n Factor	7060	OECD 305E-Bioaccum FI-thru fis
HYDROTREA TED HEAVY NAPHTHA (PETROLEUM )	64742-48-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
DODECAMET HYLCYCLOH EXASILOXA NE	540-97-6	Experimental BCF - Fathead Mi	49 days	Bioaccumulatio n Factor	1160	OECD 305E-Bioaccum FI-thru fis
GLYCERIN	56-81-5	Experimental Bioconcentrati on		Log of Octanol/H2O part. coeff	-1.76	Other methods
Solvent dewaxed heavy paraffinic distillate (petroleum)	64742-65-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Hydrotreated light paraffinic distillates (petroleum)	64742-55-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
SOLVENT DEWAXED LIGHT PARAFFINIC DISTILLATES (PETROLEUM )	64742-56-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Acrylic Polymer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Triethanolamin e	102-71-6	Experimental BCF-Carp	42 days	Bioaccumulatio n Factor	<3.9	Other methods

POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-UNDECYL-.OMEGA.-HYDROXY-	34398-01-1	Experimental BCF-Carp	10 days	Bioaccumulation Factor	309	Other methods
1,2-BENZISOTHIAZOLIN-3-ONE	2634-33-5	Experimental BCF - Bluegill	56 days	Bioaccumulation Factor	6.62	

**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**

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS. Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional 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 material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. 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 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](http://www.3M.com.my)**