# Safety Data Sheet



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|---|---|---|---|
| **Document Group:** | 41-3293-2 | **Version Number:** | 3.00 |
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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™ Finesse-it™ Premium Series Polish 320, 77317, 52060

**Product Identification Numbers**
UU-0103-1811-9

### 1.2. Recommended use and restrictions on use

**Recommended use**
Abrasive Product, Liquid abrasive for paint correction

### 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
Skin Sensitizer: Category 1.

### 2.2. Label elements
**Signal word**
Warning

**Symbols**
Exclamation mark |

**Pictograms**

**Hazard Statements:**

| | |
|---|---|
| H317 | May cause an allergic skin reaction. |

**Precautionary statements**

**Prevention:**

| | |
|---|---|
| P280E | Wear protective gloves. |

**Response:**

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

**2.3. Other hazards**

Aspiration classification does not apply due to the viscosity of the product.

## SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | C.A.S. No. | % by Wt |
|---|---|---|
| Water | 7732-18-5 | 30 - 60 |
| Aluminum Oxide | 1344-28-1 | 10 - 30 |
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | 64742-47-8 | 10 - 15 |
| White mineral oil (petroleum) | 8042-47-5 | 3 - 7 |
| Solvent Refined Hydrotreated Middle Distillate | 64742-46-7 | 3 - 7 |
| GLYCERIN | 56-81-5 | < 5 |
| POLYETHYLENE GLYCOL MONOOLEATE | 9004-96-0 | < 3 |
| Polyalkylene Oleate | Trade Secret | < 3 |
| MIXTURE- ESTERS | Mixture | 0.5 - 1.5 |
| MALEIC ANHYDRIDE | 108-31-6 | <= 0.001 |

## 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:**

If exposed, flush eyes with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms develop, get medical attention.

**If Swallowed:**

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

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

Allergic skin reaction (redness, swelling, blistering, and itching).

**4.3. Indication of any immediate medical attention and special treatment required**
Not applicable.

## SECTION 5: Fire-fighting measures

**5.1. Suitable extinguishing media**
Use a fire fighting agent suitable for the surrounding fire.

**5.2. Special hazards arising from the substance or mixture**
None inherent in this product.

**5.3. Special protective actions for fire-fighters**
No special protective actions for fire-fighters are anticipated.

## 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.

**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**
Avoid breathing of dust created by sanding, grinding or machining. Avoid breathing 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.

**7.2. Conditions for safe storage including any incompatibilities**
No special storage requirements.

## 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 |
|---|---|---|---|---|
| MALEIC ANHYDRIDE | 108-31-6 | ACGIH | TWA(inhalable fraction and vapor):0.01 mg/m3 | A4: Not class. as human carcin, Dermal/Respiratory Sensitizer |
| MALEIC ANHYDRIDE | 108-31-6 | Malaysia OELs | TWA(8 hours):1 mg/m3(0.25 ppm) | |
| 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 |
| Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles | 1344-28-1 | ACGIH | TWA(inhalable particulates):10 mg/m3 | |
| Particles (insoluble or poorly soluble) not otherwise specified, respirable particles | 1344-28-1 | ACGIH | TWA(respirable particles):3 mg/m3 | |
| DUST, INERT OR NUISANCE | 56-81-5 | Malaysia OELs | TWA (proposed)(respirable particles)(8 hours):3 mg/m3;TWA (proposed)(Inhalable particulate)(8 hours):10 mg/m3 | |
| GLYCERIN | 56-81-5 | Malaysia OELs | TWA(as mist)(8 hours):10 mg/m3 | |
| OIL MIST, MINERAL | 64742-46-7 | Malaysia OELs | TWA(as mist)(8 hours):5 mg/m3 | |
| MINERAL OILS, HIGHLY-REFINED OILS | 8042-47-5 | ACGIH | TWA(inhalable fraction):5 mg/m3 | A4: Not class. as human carcin |
| OIL MIST, MINERAL | 8042-47-5 | 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**
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:
Safety Glasses with side shields

**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
Neoprene
Nitrile Rubber

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 – Butyl rubber
Apron - Neoprene
Apron – Nitrile

**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:** | Emulsion |
| **Color** | Blue |
| **Odor** | Low Solvent |
| **Odor threshold** | *No Data Available* |
| **pH** | 8.2 - 9 |
| **Melting point/Freezing point** | *No Data Available* |
| **Boiling point/Initial boiling point/Boiling range** | 95 - 105 ºC |
| **Flash Point** | No flash point |
| **Evaporation rate** | *No Data Available* |
| **Flammability** | Not Applicable |
| **Flammable Limits(LEL)** | *No Data Available* |
| **Flammable Limits(UEL)** | *No Data Available* |
| **Vapor Pressure** | *No Data Available* |
| **Vapor Density and/or Relative Vapor Density** | *No Data Available* |
| **Density** | 1.08 - 1.16 kg/l |
| **Relative Density** | [*Ref Std:*WATER=1]*No Data Available* |
| **Water solubility** | *No Data Available* |
| **Solubility- non-water** | *No Data Available* |
| **Partition coefficient: n-octanol/ water** | *No Data Available* |
| **Autoignition temperature** | *No Data Available* |
| **Decomposition temperature** | *No Data Available* |
| **Kinematic Viscosity** | 36,036 mm2/sec |
| **Volatile Organic Compounds** | 19 % weight |
| **Percent volatile** | 69.4 % weight |
| **VOC Less H2O & Exempt Solvents** | 489.9 g/l |
| **Molecular weight** | *Not Applicable* |

| | |
|---|---|
| **Particle Characteristics** | *Not Applicable* |

## SECTION 10: Stability and reactivity

**10.1. Reactivity**
This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

**10.2. Chemical stability**
Stable.

**10.3. Possibility of hazardous reactions**
Hazardous polymerization will not occur.

**10.4. Conditions to avoid**
Not determined

**10.5. Incompatible materials**
None known.

**10.6. Hazardous decomposition products**

| Substance | Condition |
|---|---|
| Hydrocarbons | At Elevated Temperatures |
| Carbon monoxide | At Elevated Temperatures |
| Carbon dioxide | At Elevated Temperatures |
| Oxides of Nitrogen | At Elevated Temperatures |

## 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.

**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:**
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 | Inhalation-Vapor(4 hr) | | No data available; calculated ATE >50 mg/l |
| 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 | Ingestion | Rat | LD50 > 15,000 mg/kg |
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | Dermal | similar compounds | LD50 > 5,000 mg/kg |
| Solvent Refined Hydrotreated Middle Distillate | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| White mineral oil (petroleum) | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Solvent Refined Hydrotreated Middle Distillate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.3 mg/l |
| Solvent Refined Hydrotreated Middle Distillate | Ingestion | Rat | LD50 > 5,000 mg/kg |
| White mineral oil (petroleum) | Ingestion | Rat | LD50 > 5,000 mg/kg |
| GLYCERIN | Dermal | Rabbit | LD50 estimated to be > 5,000 mg/kg |
| GLYCERIN | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Polyalkylene Oleate | Dermal | Not available | LD50 > 5,000 mg/kg |
| POLYETHYLENE GLYCOL MONOOLEATE | Dermal | Rabbit | LD50 > 9,800 mg/kg |
| Polyalkylene Oleate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.1 mg/l |
| Polyalkylene Oleate | Ingestion | Rat | LD50 20,000 mg/kg |
| POLYETHYLENE GLYCOL MONOOLEATE | Ingestion | Rat | LD50 > 2,000 mg/kg |
| MALEIC ANHYDRIDE | Dermal | Rabbit | LD50 2,620 mg/kg |
| MALEIC ANHYDRIDE | Ingestion | Rat | LD50 1,030 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Aluminum Oxide | Rabbit | No significant irritation |
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | similar compounds | Mild irritant |
| Solvent Refined Hydrotreated Middle Distillate | Rabbit | No significant irritation |
| White mineral oil (petroleum) | Rabbit | No significant irritation |
| GLYCERIN | Rabbit | No significant irritation |
| Polyalkylene Oleate | Rabbit | No significant irritation |
| POLYETHYLENE GLYCOL MONOOLEATE | Rabbit | Mild irritant |
| MALEIC ANHYDRIDE | Human and animal | Corrosive |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| Aluminum Oxide | Rabbit | No significant irritation |
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | similar compounds | No significant irritation |
| Solvent Refined Hydrotreated Middle Distillate | Rabbit | Mild irritant |

| | | |
|---|---|---|
| White mineral oil (petroleum) | Rabbit | Mild irritant |
| GLYCERIN | Rabbit | No significant irritation |
| Polyalkylene Oleate | Rabbit | No significant irritation |
| POLYETHYLENE GLYCOL MONOOLEATE | Rabbit | Moderate irritant |
| MALEIC ANHYDRIDE | Rabbit | Corrosive |

**Sensitization:**

**Skin Sensitization**

| Name | Species | Value |
|---|---|---|
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | similar compounds | Not classified |
| Solvent Refined Hydrotreated Middle Distillate | Guinea pig | Not classified |
| White mineral oil (petroleum) | Guinea pig | Not classified |
| GLYCERIN | Guinea pig | Not classified |
| Polyalkylene Oleate | Guinea pig | Not classified |
| MALEIC ANHYDRIDE | Multiple animal species | Sensitizing |

**Respiratory Sensitization**

| Name | Species | Value |
|---|---|---|
| MALEIC ANHYDRIDE | Human | Sensitizing |

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| Aluminum Oxide | In Vitro | Not mutagenic |
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | In Vitro | Not mutagenic |
| Solvent Refined Hydrotreated Middle Distillate | In Vitro | Not mutagenic |
| Solvent Refined Hydrotreated Middle Distillate | In vivo | Not mutagenic |
| White mineral oil (petroleum) | In Vitro | Not mutagenic |
| Polyalkylene Oleate | In Vitro | Not mutagenic |
| MALEIC ANHYDRIDE | In vivo | Not mutagenic |
| MALEIC ANHYDRIDE | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name | Route | Species | Value |
|---|---|---|---|
| Aluminum Oxide | Inhalation | Rat | Not carcinogenic |
| White mineral oil (petroleum) | Dermal | Mouse | Not carcinogenic |
| White mineral oil (petroleum) | Inhalation | Multiple animal species | Not carcinogenic |
| GLYCERIN | Ingestion | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Polyalkylene Oleate | Ingestion | Rat | 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 |
|---|---|---|---|---|---|
| Solvent Refined Hydrotreated Middle | Not | Not classified for female reproduction | Rat | NOAEL Not | gestation |

| | | | | | |
|---|---|---|---|---|---|
| Distillate | Specified | | | available | into lactation |
| Solvent Refined Hydrotreated Middle Distillate | Not Specified | Not classified for male reproduction | Rat | NOAEL Not available | 28 days |
| Solvent Refined Hydrotreated Middle Distillate | Not Specified | Not classified for development | Rat | NOAEL Not available | during gestation |
| White mineral oil (petroleum) | Ingestion | Not classified for female reproduction | Rat | NOAEL 4,350 mg/kg/day | 13 weeks |
| White mineral oil (petroleum) | Ingestion | Not classified for male reproduction | Rat | NOAEL 4,350 mg/kg/day | 13 weeks |
| White mineral oil (petroleum) | Ingestion | Not classified for development | Rat | NOAEL 4,350 mg/kg/day | during gestation |
| 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 |
| Polyalkylene Oleate | Ingestion | Not classified for female reproduction | Rat | NOAEL 6,666 mg/kg/day | 3 generation |
| Polyalkylene Oleate | Ingestion | Not classified for male reproduction | Rat | NOAEL 6,666 mg/kg/day | 3 generation |
| Polyalkylene Oleate | Ingestion | Not classified for development | Rat | NOAEL 5,000 mg/kg/day | during organogenesis |
| MALEIC ANHYDRIDE | Ingestion | Not classified for female reproduction | Rat | NOAEL 55 mg/kg/day | 2 generation |
| MALEIC ANHYDRIDE | Ingestion | Not classified for male reproduction | Rat | NOAEL 55 mg/kg/day | 2 generation |
| MALEIC ANHYDRIDE | Ingestion | Not classified for development | Rat | NOAEL 140 mg/kg/day | during organogenesis |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| MALEIC ANHYDRIDE | Inhalation | respiratory irritation | May cause respiratory irritation | Human | 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 |
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | Inhalation | liver | Not classified | Rat | NOAEL 6 mg/l | 13 weeks |
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | Inhalation | kidney and/or bladder | Not classified | Rat | LOAEL 1.5 mg/l | 13 weeks |
| HYDROTREATED LIGHT PETROLEUM | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 6 mg/l | 13 weeks |

| | | | | | | |
|---|---|---|---|---|---|---|
| DISTILLATES | | | | | | |
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | Ingestion | kidney and/or bladder | Not classified | Rat | LOAEL 100 mg/kg/day | 13 weeks |
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | Ingestion | hematopoietic system \| eyes | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| White mineral oil (petroleum) | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,381 mg/kg/day | 90 days |
| White mineral oil (petroleum) | Ingestion | liver \| immune system | Not classified | Rat | NOAEL 1,336 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 |
| Polyalkylene Oleate | Ingestion | heart \| endocrine system \| gastrointestinal tract \| bone, teeth, nails, and/or hair \| hematopoietic system \| liver \| immune system \| nervous system \| kidney and/or bladder \| respiratory system | Not classified | Rat | NOAEL 4,132 mg/kg/day | 90 days |
| MALEIC ANHYDRIDE | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.0011 mg/l | 6 months |
| MALEIC ANHYDRIDE | Inhalation | endocrine system \| hematopoietic system \| nervous system \| kidney and/or bladder \| heart \| liver \| eyes | Not classified | Rat | NOAEL 0.0098 mg/l | 6 months |
| MALEIC ANHYDRIDE | Ingestion | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 55 mg/kg/day | 80 days |
| MALEIC ANHYDRIDE | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 250 mg/kg/day | 183 days |
| MALEIC ANHYDRIDE | Ingestion | heart \| nervous system | Not classified | Rat | NOAEL 600 mg/kg/day | 183 days |
| MALEIC ANHYDRIDE | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 150 mg/kg/day | 80 days |
| MALEIC ANHYDRIDE | Ingestion | hematopoietic system | Not classified | Dog | NOAEL 60 mg/kg/day | 90 days |
| MALEIC ANHYDRIDE | Ingestion | skin \| endocrine system \| immune system \| eyes \| respiratory system | Not classified | Rat | NOAEL 150 mg/kg/day | 80 days |

## Aspiration Hazard

| Name | Value |
|---|---|
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | Aspiration hazard |
| Solvent Refined Hydrotreated Middle Distillate | Aspiration hazard |
| White mineral oil (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:**
Not acutely toxic to aquatic life by GHS criteria.

**Chronic aquatic hazard:**
Not chronically toxic to aquatic life by GHS criteria.

No product test data available

| Material | Cas # | Organism | Type | Exposure | Test Endpoint | Test Result |
|---|---|---|---|---|---|---|
| Aluminum Oxide | 1344-28-1 | Fish | Experimental | 96 hours | LC50 | >100 mg/l |
| Aluminum Oxide | 1344-28-1 | Green algae | Experimental | 72 hours | EC50 | >100 mg/l |
| Aluminum Oxide | 1344-28-1 | Water flea | Experimental | 48 hours | LC50 | >100 mg/l |
| Aluminum Oxide | 1344-28-1 | Green algae | Experimental | 72 hours | NOEC | >100 mg/l |
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | 64742-47-8 | Green algae | Experimental | 72 hours | EL50 | >1,000 mg/l |
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | 64742-47-8 | Rainbow Trout | Experimental | 96 hours | LL50 | >1,000 mg/l |
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | 64742-47-8 | Water flea | Experimental | 48 hours | EL50 | >1,000 mg/l |
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | 64742-47-8 | Green algae | Experimental | 72 hours | NOEL | 1,000 mg/l |
| Solvent Refined Hydrotreated Middle Distillate | 64742-46-7 | Green algae | Estimated | 72 hours | EL50 | >1,000 mg/l |
| Solvent Refined Hydrotreated Middle Distillate | 64742-46-7 | Rainbow Trout | Estimated | 96 hours | LL50 | >87,556 mg/l |
| Solvent Refined Hydrotreated Middle Distillate | 64742-46-7 | Water flea | Estimated | 48 hours | LL50 | >1,000 mg/l |
| Solvent Refined Hydrotreated Middle Distillate | 64742-46-7 | Green algae | Estimated | 72 hours | NOEL | 1,000 mg/l |
| Solvent Refined Hydrotreated Middle Distillate | 64742-46-7 | Water flea | Estimated | 21 days | NOEL | 5 mg/l |
| White mineral oil (petroleum) | 8042-47-5 | Water flea | Analogous Compound | 48 hours | EL50 | >100 mg/l |
| White mineral oil (petroleum) | 8042-47-5 | Bluegill | Experimental | 96 hours | LL50 | >100 mg/l |
| White mineral oil | 8042-47-5 | Green algae | Analogous | 72 hours | NOEL | 100 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| (petroleum) | | | Compound | | | |
| White mineral oil (petroleum) | 8042-47-5 | Water flea | Analogous Compound | 21 days | NOEL | >100 mg/l |
| GLYCERIN | 56-81-5 | Bacteria | Experimental | 16 hours | NOEC | 10,000 mg/l |
| GLYCERIN | 56-81-5 | Rainbow Trout | Experimental | 96 hours | LC50 | 54,000 mg/l |
| GLYCERIN | 56-81-5 | Water flea | Experimental | 48 hours | LC50 | 1,955 mg/l |
| Polyalkylene Oleate | Trade Secret | Green algae | Analogous Compound | 72 hours | EL50 | 58.84 mg/l |
| Polyalkylene Oleate | Trade Secret | Zebra Fish | Analogous Compound | 96 hours | LL50 | >100 mg/l |
| Polyalkylene Oleate | Trade Secret | Green algae | Analogous Compound | 72 hours | EL10 | 19.05 mg/l |
| Polyalkylene Oleate | Trade Secret | Water flea | Analogous Compound | 21 days | NOEL | 10 mg/l |
| POLYETHYLENE GLYCOL MONOOLEATE | 9004-96-0 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| MALEIC ANHYDRIDE | 108-31-6 | Bacteria | Experimental | 18 hours | EC10 | 44.6 mg/l |
| MALEIC ANHYDRIDE | 108-31-6 | Rainbow Trout | Experimental | 96 hours | LC50 | 75 mg/l |
| MALEIC ANHYDRIDE | 108-31-6 | Green algae | Hydrolysis Product | 72 hours | ErC50 | 74.4 mg/l |
| MALEIC ANHYDRIDE | 108-31-6 | Water flea | Hydrolysis Product | 48 hours | EC50 | 93.8 mg/l |
| MALEIC ANHYDRIDE | 108-31-6 | Water flea | Experimental | 21 days | NOEC | 10 mg/l |
| MALEIC ANHYDRIDE | 108-31-6 | Green algae | Hydrolysis Product | 72 hours | ErC10 | 11.8 mg/l |

### 12.2. Persistence and degradability

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|---|---|---|---|---|---|---|
| Aluminum Oxide | 1344-28-1 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | 64742-47-8 | Estimated Biodegradation | 28 days | Biological Oxygen Demand | 69 %BOD/ThOD | OECD 301F - Manometric Respiro |
| Solvent Refined Hydrotreated Middle Distillate | 64742-46-7 | Estimated Biodegradation | 28 days | Biological Oxygen Demand | 74 %BOD/ThOD | OECD 306(Misc)-Biodegrad. Seaw |
| White mineral oil (petroleum) | 8042-47-5 | Experimental Biodegradation | 28 days | Carbon dioxide evolution | 0 %CO2 evolution/THCO2 evolution | OECD 301B - Mod. Sturm or CO2 |
| GLYCERIN | 56-81-5 | Experimental Biodegradation | 14 days | Biological Oxygen Demand | 63 %BOD/ThOD | OECD 301C - MITI (I) |
| Polyalkylene Oleate | Trade Secret | Experimental Biodegradation | 28 days | Carbon dioxide evolution | 61 %CO2 evolution/THCO2 evolution | ISO 14593 Inorg C Headspace |
| POLYETHYLENE GLYCOL MONOOLEATE | 9004-96-0 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| MALEIC ANHYDRIDE | 108-31-6 | Hydrolysis product Biodegradation | 25 days | Carbon dioxide evolution | >90 %CO2 evolution/THCO2 evolution | OECD 301B - Mod. Sturm or CO2 |
| MALEIC ANHYDRIDE | 108-31-6 | Experimental Hydrolysis | | Hydrolytic half-life | 0.37 minutes (t 1/2) | |

### 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 |
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | 64742-47-8 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Solvent Refined Hydrotreated Middle Distillate | 64742-46-7 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| White mineral oil (petroleum) | 8042-47-5 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| GLYCERIN | 56-81-5 | Experimental Bioconcentration | | Log of Octanol/H2O part. coeff | -1.76 | |
| Polyalkylene Oleate | Trade Secret | Modeled Bioconcentration | | Bioaccumulation Factor | 5 | Catalogic™ |
| Polyalkylene Oleate | Trade Secret | Modeled Bioconcentration | | Log of Octanol/H2O part. coeff | 5.61 | Episuite™ |
| POLYETHYLENE GLYCOL MONOOLEATE | 9004-96-0 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| MALEIC ANHYDRIDE | 108-31-6 | Experimental Bioconcentration | | Log of Octanol/H2O part. coeff | -2.61 | OECD 107 log Kow shke flsk mtd |

**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. 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 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**