



Safety Data Sheet

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Document Group:	41-1325-4	Version Number:	1.00
Issue Date:	13/06/2026	Supersedes Date:	Initial Issue

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

52057 Finesse-It Polish 320, 52057

Product Identification Numbers

UU-0103-1636-0 UU-0130-6893-5

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

Not classified as hazardous according to Occupational Safety and Health (Chemical Classification, Labelling and Safety Data Sheets) Regulations 2013.

2.2. Label elements

Signal word

Not applicable

Symbols

Not applicable

Pictograms

Not applicable

2.3. Other hazards

Aspiration hazard classification does not apply due to the kinematic 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

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:

Wash with soap and water. 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

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

4.3. Indication of any immediate medical attention and special treatment required

Not applicable.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

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 eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.

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
Aluminum metal and insoluble compounds, respirable fraction	1344-28-1	ACGIH	TWA(respirable fraction):1 mg/m ³	A4: Not class. as human carcin
Aluminum Oxide	1344-28-1	Malaysia OELs	TWA (proposed)(8 hours):10 mg/m ³	
Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles	1344-28-1	ACGIH	TWA(inhalable particulates):10 mg/m ³	
Particles (insoluble or poorly soluble) not otherwise specified, respirable particles	1344-28-1	ACGIH	TWA(respirable particles):3 mg/m ³	
GLYCERIN	56-81-5	Malaysia OELs	TWA(as mist)(8 hours):10	

			mg/m3	
Particulates not Otherwise Classified (PNOC), Inhalable particulate	56-81-5	Malaysia OELs	TWA (proposed)(respirable particles)(8 hours):3 mg/m3;TWA (proposed)(Inhalable particulate)(8 hours):10 mg/m3	
Oil mist, mineral	64742-46-7	Malaysia OELs	TWA(as mist)(8 hours):5 mg/m3	
Mineral oil, excluding metal working fluids, pure, highly and severely refined, inhalable fraction	64742-47-8	ACGIH	TWA(inhalable fraction):5 mg/m3	A4: Not class. as human carcin
Mineral oil, excluding metal working fluids, pure, highly and severely refined, inhalable fraction	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

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. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Polymer laminate

When only incidental contact is anticipated, alternative glove material(s) may be used. If contact with the glove does occur, remove immediately and replace with a set of new gloves. For incidental contact, gloves made of the following material(s) may be used: Nitrile Rubber

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 °C
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
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 mm ² /sec
Volatile Organic Compounds	19 % weight
Percent volatile	69.4 % weight
VOC Less H ₂ O & Exempt Solvents	489.9 g/l
Molecular weight	Not Applicable

Particle Characteristics	Not Applicable
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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**

Hydrocarbons
Carbon monoxide
Carbon dioxide
Oxides of Nitrogen

Condition

At Elevated Temperatures
At Elevated Temperatures
At Elevated Temperatures
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.

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	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

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

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

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

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
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

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 Distillate	Not Specified	Not classified for female reproduction	Rat	NOAEL Not available	gestation 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

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	

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 DISTILLATES	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 6 mg/l	13 weeks
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	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
HYDROTREATED LIGHT PETROLEUM DISTILLATES	Ingestion	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	Not classified	Rat	NOAEL 1,336 mg/kg/day	90 days
White mineral oil (petroleum)	Ingestion	immune system	Not classified	Rat	NOAEL 1,336 mg/kg/day	90 days
GLYCERIN	Inhalation	respiratory system	Not classified	Rat	NOAEL 3.91 mg/l	14 days
GLYCERIN	Inhalation	heart	Not classified	Rat	NOAEL 3.91 mg/l	14 days
GLYCERIN	Inhalation	liver	Not classified	Rat	NOAEL 3.91 mg/l	14 days
GLYCERIN	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 3.91 mg/l	14 days
GLYCERIN	Ingestion	endocrine system	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
GLYCERIN	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
GLYCERIN	Ingestion	liver	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
GLYCERIN	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Polyalkylene Oleate	Ingestion	heart	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyalkylene Oleate	Ingestion	endocrine system	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyalkylene Oleate	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 4,132	90 days

					mg/kg/day	
Polyalkylene Oleate	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyalkylene Oleate	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyalkylene Oleate	Ingestion	liver	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyalkylene Oleate	Ingestion	immune system	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyalkylene Oleate	Ingestion	nervous system	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyalkylene Oleate	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyalkylene Oleate	Ingestion	respiratory system	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 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	64742-47-8	Rainbow Trout	Experimental	96 hours	LL50	>1,000 mg/l

PETROLEUM DISTILLATES						
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 (petroleum)	8042-47-5	Green algae	Analogous Compound	72 hours	NOEL	100 mg/l
White mineral oil (petroleum)	8042-47-5	Water flea	Analogous Compound	21 days	NOEL	>100 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
GLYCERIN	56-81-5	Bacteria	Experimental	16 hours	NOEC	10,000 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

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Aluminum Oxide	1344-28-1	Data not available - 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 %CO ₂ evolution/THCO ₂ evolution	OECD 301B - Mod. Sturm or CO ₂

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 available or insufficient	N/A	N/A	N/A	N/A

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	-1.75	similar to OECD 107
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

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.

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