



## 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

Finesse-it Paste Glaze

#### Product Identification Numbers

JC-1100-9370-8      JC-1100-9685-9      JC-2200-1766-2      JC-2200-2988-1      JC-3100-9482-9

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

##### Recommended use

Abrasive Product

#### 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**

None known

**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 - 75
DISTILLATES (PETROLEUM), ACID TREATED, LIGHT	64742-14-9	5 - 15
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	64742-48-9	5 - 15
GLYCERIN	56-81-5	1 - 10
Aluminum Oxide (non-fibrous)	1344-28-1	1 - 10
Filler	Trade Secret	< 5
White mineral oil (petroleum)	8042-47-5	< 3
MORPHOLINE	110-91-8	< 1

**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.

**Hazardous Decomposition or By-Products****Substance**

Hydrocarbons  
Carbon monoxide  
Carbon dioxide

**Condition**

During Combustion  
During Combustion  
During Combustion

Irritant Vapors or Gases

During Combustion

**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**

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 cutting, sanding, grinding or machining. For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. 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. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required. Combustible dust may form by action of this product on another material (substrate). Dust generated from the substrate during use of this product may be explosive if in sufficient concentration with an ignition source. Dust deposits should not be allowed to accumulate on surfaces because of the potential for secondary explosions.

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

Store away from oxidizing agents.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

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

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
MORPHOLINE	110-91-8	ACGIH	TWA:20 ppm	A4: Not class. as human

				carcin, Danger of cutaneous absorption
MORPHOLINE	110-91-8	Malaysia OELs	TWA(8 hours):71 mg/m <sup>3</sup> (20 ppm)	SKIN
Aluminum Oxide (non-fibrous)	1344-28-1	Malaysia OELs	TWA (proposed)(8 hours):10 mg/m <sup>3</sup>	
Aluminum, insoluble compounds	1344-28-1	ACGIH	TWA(respirable fraction):1 mg/m <sup>3</sup>	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/m <sup>3</sup>	
Particles (insoluble or poorly soluble) not otherwise specified, respirable particles	1344-28-1	ACGIH	TWA(respirable particles):3 mg/m <sup>3</sup>	
DUST, INERT OR NUISANCE	56-81-5	Malaysia OELs	TWA (proposed)(respirable particles)(8 hours):3 mg/m <sup>3</sup> ;TWA (proposed)(Inhalable particulate)(8 hours):10 mg/m <sup>3</sup>	
GLYCERIN	56-81-5	Malaysia OELs	TWA(as mist)(8 hours):10 mg/m <sup>3</sup>	
MINERAL OILS, HIGHLY-REFINED OILS	8042-47-5	ACGIH	TWA(inhalable fraction):5 mg/m <sup>3</sup>	A4: Not class. as human carcin
OIL MIST, MINERAL	8042-47-5	Malaysia OELs	TWA(as mist)(8 hours):5 mg/m <sup>3</sup>	

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. Provide local exhaust at process emission sources to control exposure near the source and to prevent the escape of dust into the work area. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the 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: 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:	Paste
Color	White
Odor	Slight Solvent
Odor threshold	No Data Available
pH	No Data Available
Melting point/Freezing point	No Data Available
Boiling point/Initial boiling point/Boiling range	100 °C
Flash Point	No flash point [Test Method:Closed Cup] [Details:Seta Closed Cup Flash Point Tester]
Evaporation rate	No Data Available
Flammability	Not Applicable
Flammable Limits(LEL)	0.8 %
Flammable Limits(UEL)	6 %
Vapor Pressure	No Data Available
Relative Vapor Density	1 [Details:air=1]
Density	1 kg/l
Relative Density	0.98 - 1.01
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	No Data Available
Volatile Organic Compounds	No Data Available
Percent volatile	No Data Available
VOC Less H2O & Exempt Solvents	No Data Available

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

None known.

### 10.5. Incompatible materials

Strong oxidizing agents

### 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:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Dust from grinding, sanding or machining may cause irritation of the respiratory system. 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:

Dust created by grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### Ingestion:

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

May cause additional health effects (see below).

#### Additional Health Effects:

#### Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

#### Toxicological Data

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

the data are not sufficient for classification.

### Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Inhalation-Dust/Mist(4 hr)		No data available; calculated ATE >12.5 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	Ingestion	Rat	LD50 > 5,000 mg/kg
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	Dermal	similar compounds	LD50 > 5,000 mg/kg
DISTILLATES (PETROLEUM), ACID TREATED, LIGHT	Dermal	Rabbit	LD50 > 2,000 mg/kg
DISTILLATES (PETROLEUM), ACID TREATED, LIGHT	Ingestion	Rat	LD50 > 5,000 mg/kg
Aluminum Oxide (non-fibrous)	Dermal		LD50 estimated to be > 5,000 mg/kg
Aluminum Oxide (non-fibrous)	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.3 mg/l
Aluminum Oxide (non-fibrous)	Ingestion	Rat	LD50 > 5,000 mg/kg
Filler	Dermal	Rabbit	LD50 > 5,000 mg/kg
Filler	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Filler	Ingestion	Rat	LD50 > 5,110 mg/kg
GLYCERIN	Dermal	Rabbit	LD50 estimated to be > 5,000 mg/kg
GLYCERIN	Ingestion	Rat	LD50 > 5,000 mg/kg
White mineral oil (petroleum)	Dermal	Rabbit	LD50 > 2,000 mg/kg
White mineral oil (petroleum)	Ingestion	Rat	LD50 > 5,000 mg/kg
MORPHOLINE	Dermal	Rabbit	LD50 500 mg/kg
MORPHOLINE	Inhalation-Vapor	Rat	LC50 estimated to be 10 - 20 mg/l
MORPHOLINE	Ingestion	Rat	LD50 1,680 mg/kg

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

Name	Species	Value
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	similar compounds	Mild irritant
DISTILLATES (PETROLEUM), ACID TREATED, LIGHT	Professional judgement	Mild irritant
Aluminum Oxide (non-fibrous)	Rabbit	No significant irritation
Filler	Rabbit	No significant irritation
GLYCERIN	Rabbit	No significant irritation
White mineral oil (petroleum)	Rabbit	No significant irritation
MORPHOLINE	Rabbit	Corrosive

### Serious Eye Damage/Irritation

Name	Species	Value
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	similar compounds	No significant irritation
DISTILLATES (PETROLEUM), ACID TREATED, LIGHT	Professional judgement	Mild irritant
Aluminum Oxide (non-fibrous)	Rabbit	No significant irritation
Filler	Rabbit	No significant irritation

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GLYCERIN	Rabbit	No significant irritation
White mineral oil (petroleum)	Rabbit	Mild irritant
MORPHOLINE	Rabbit	Corrosive

**Sensitization:****Skin Sensitization**

Name	Species	Value
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	similar compounds	Not classified
DISTILLATES (PETROLEUM), ACID TREATED, LIGHT	Guinea pig	Not classified
Filler	Human and animal	Not classified
GLYCERIN	Guinea pig	Not classified
White mineral oil (petroleum)	Guinea pig	Not classified
MORPHOLINE	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
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	In Vitro	Not mutagenic
DISTILLATES (PETROLEUM), ACID TREATED, LIGHT	In Vitro	Not mutagenic
Aluminum Oxide (non-fibrous)	In Vitro	Not mutagenic
Filler	In Vitro	Not mutagenic
White mineral oil (petroleum)	In Vitro	Not mutagenic
MORPHOLINE	In Vitro	Some positive data exist, but the data are not sufficient for classification
MORPHOLINE	In vivo	Some positive data exist, but the data are not sufficient for classification

**Carcinogenicity**

Name	Route	Species	Value
DISTILLATES (PETROLEUM), ACID TREATED, LIGHT	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Aluminum Oxide (non-fibrous)	Inhalation	Rat	Not carcinogenic
Filler	Not Specified	Mouse	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
White mineral oil (petroleum)	Dermal	Mouse	Not carcinogenic
White mineral oil (petroleum)	Inhalation	Multiple animal species	Not carcinogenic
MORPHOLINE	Ingestion	Multiple animal species	Not carcinogenic
MORPHOLINE	Inhalation	Rat	Not carcinogenic

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test Result	Exposure Duration
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Filler	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Filler	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Filler	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
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
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
MORPHOLINE	Ingestion	Not classified for development		NA	
MORPHOLINE	Ingestion	Toxic to male reproduction	similar compounds	NOAEL 60 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
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	Inhalation	central nervous system depression	May cause drowsiness or dizziness	similar compounds	NOAEL Not available	
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
DISTILLATES (PETROLEUM), ACID TREATED, LIGHT	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
DISTILLATES (PETROLEUM), ACID TREATED, LIGHT	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
DISTILLATES (PETROLEUM), ACID TREATED, LIGHT	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
MORPHOLINE	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
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	Inhalation	liver   kidney and/or bladder   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   muscles	Not classified	Rat	NOAEL 6 mg/l	13 weeks

		nervous system   respiratory system   vascular system				
Aluminum Oxide (non-fibrous)	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Aluminum Oxide (non-fibrous)	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure
Filler	Inhalation	respiratory system   silicosis	Not classified	Human	NOAEL Not available	occupational exposure
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
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
MORPHOLINE	Dermal	liver   kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Guinea pig	LOAEL 900 mg/kg/day	13 days
MORPHOLINE	Dermal	hematopoietic system	Not classified	Guinea pig	NOAEL 900 mg/kg/day	13 days
MORPHOLINE	Inhalation	eyes	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
MORPHOLINE	Inhalation	pulmonary fibrosis	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 0.09 mg/l	13 weeks
MORPHOLINE	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 64 mg/l	5 days
MORPHOLINE	Inhalation	liver	Not classified	Rat	LOAEL 64 mg/l	5 days
MORPHOLINE	Inhalation	heart   endocrine system	Not classified	Rat	NOAEL 0.9 mg/l	13 weeks
MORPHOLINE	Inhalation	gastrointestinal tract   nervous system	Not classified	Rat	NOAEL 0.53 mg/l	104 weeks
MORPHOLINE	Ingestion	kidney and/or bladder	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 160 mg/kg/day	30 days
MORPHOLINE	Ingestion	liver   respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 160 mg/kg/day	30 days
MORPHOLINE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 800 mg/kg/day	30 days
MORPHOLINE	Ingestion	endocrine system	Not classified	Rat	NOAEL 323 mg/kg/day	4 weeks

**Aspiration Hazard**

Name	Value
HYDROTREATED HEAVY NAPHTHA (PETROLEUM)	Aspiration hazard
DISTILLATES (PETROLEUM), ACID TREATED, LIGHT	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
DISTILLATES (PETROLEUM), ACID TREATED, LIGHT	64742-14-9	N/A	Data not available or insufficient for classification	N/A	N/A	n/a
HYDROTREATE D HEAVY NAPHTHA (PETROLEUM)	64742-48-9	Green algae	Experimental	72 hours	EL50	>1,000 mg/l
HYDROTREATE D HEAVY NAPHTHA (PETROLEUM)	64742-48-9	Rainbow Trout	Experimental	96 hours	LL50	>1,000 mg/l
HYDROTREATE D HEAVY NAPHTHA (PETROLEUM)	64742-48-9	Water flea	Experimental	48 hours	EL50	>1,000 mg/l
HYDROTREATE D HEAVY NAPHTHA (PETROLEUM)	64742-48-9	Green algae	Experimental	72 hours	NOEL	100 mg/l
Aluminum Oxide (non-fibrous)	1344-28-1	N/A	Experimental	96 hours	LC50	>100 mg/l
Aluminum Oxide (non-fibrous)	1344-28-1	Green algae	Experimental	72 hours	EC50	>100 mg/l
Aluminum Oxide (non-fibrous)	1344-28-1	Water flea	Experimental	48 hours	LC50	>100 mg/l
Aluminum Oxide (non-fibrous)	1344-28-1	Green algae	Experimental	72 hours	NOEC	>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
Filler	Trade Secret	Green algae	Analogous Compound	72 hours	ErC50	>173.1 mg/l
Filler	Trade Secret	Sediment organism	Analogous Compound	96 hours	EC50	8,500 mg/kg (Dry Weight)
Filler	Trade Secret	Water flea	Analogous Compound	24 hours	EL50	>10,000 mg/l
Filler	Trade Secret	Zebra Fish	Analogous Compound	96 hours	LL50	>10,000 mg/l
Filler	Trade Secret	Green algae	Analogous Compound	72 hours	NOEC	173.1 mg/l
Filler	Trade Secret	Water flea	Analogous Compound	21 days	NOEC	68 mg/l
Filler	Trade Secret	Activated sludge	Experimental	3 hours	EC50	>1,000 mg/l
White mineral oil (petroleum)	8042-47-5	Water flea	Analogous Compound	48 hours	EL50	>100 mg/l
White mineral oil	8042-47-5	Bluegill	Experimental	96 hours	LL50	>100 mg/l

(petroleum)						
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
MORPHOLINE	110-91-8	Activated sludge	Experimental	30 minutes	EC20	>1,000 mg/l
MORPHOLINE	110-91-8	Fish	Experimental	96 hours	LC50	100 mg/l
MORPHOLINE	110-91-8	Green algae	Experimental	96 hours	ErC50	28 mg/l
MORPHOLINE	110-91-8	Rainbow Trout	Experimental	96 hours	LC50	180 mg/l
MORPHOLINE	110-91-8	Water flea	Experimental	48 hours	EC50	45 mg/l
MORPHOLINE	110-91-8	Green algae	Experimental	96 hours	NOEC	10 mg/l
MORPHOLINE	110-91-8	Water flea	Experimental	21 days	NOEC	5 mg/l

## 12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
DISTILLATES (PETROLEUM), ACID TREATED, LIGHT	64742-14-9	Data not availbl-insufficient	N/A	N/A	N/A	N/A
HYDROTREATE D HEAVY NAPHTHA (PETROLEUM)	64742-48-9	Experimental Biodegradation	28 days	Biological Oxygen Demand	80% %BOD/ThOD	OECD 301F - Manometric Respiro
Aluminum Oxide (non-fibrous)	1344-28-1	Data not availbl-insufficient	N/A	N/A	N/A	N/A
GLYCERIN	56-81-5	Experimental Biodegradation	14 days	Biological Oxygen Demand	63 %BOD/ThOD	OECD 301C - MITI (I)
Filler	Trade Secret	Data not availbl-insufficient	N/A	N/A	N/A	N/A
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
MORPHOLINE	110-91-8	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	93 %removal of DOC	OECD 301E - Modif. OECD Screen
MORPHOLINE	110-91-8	Experimental Biodegradation	31 days	Dissolv. Organic Carbon Deplet	98 %removal of DOC	OECD 302B Zahn-Wellens/EVPA

## 12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
DISTILLATES (PETROLEUM), ACID TREATED, LIGHT	64742-14-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
HYDROTREATE D HEAVY NAPHTHA (PETROLEUM)	64742-48-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Aluminum Oxide (non-fibrous)	1344-28-1	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
Filler	Trade Secret	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
MORPHOLINE	110-91-8	Experimental BCF	42 days	Bioaccumulation	<2.8	OECD305-Bioconcentration

		- Fish		Factor		
MORPHOLINE	110-91-8	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	-2.55	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.

## **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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