



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the DENR Administrative Order No. 2015-09 Rules and Procedures for the Implementation of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) in Preparation of Safety Data Sheet (SDS) and Labelling Requirements of Toxic Chemical Substances.

SECTION 1: Identification

1.1. Product identifier

3M™ Rubbing Compound, 05973, 05974, 05968, 3900, 39002, 39002S, 39005

Product Identification Numbers

60-4550-5784-8

1.2. Recommended use and restrictions on use

Recommended use

Automotive, Rubbing Compound

For Industrial or Professional use only

1.3. Supplier's details

ADDRESS: 3M Philippines, 10th and 11th Floor, The Finance Center, 26th Street Corner 9th Avenue Bonifacio Global City, Taguig City, 1634 Philippines
Telephone: +632 827 11680
E Mail: mcvillalva@mmm.com
Website: www.3m.com/ph

1.4. Emergency telephone number

+632 827 11680

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Specific Target Organ Toxicity (repeated exposure): Category 2.

2.2. Label elements

Signal word

Warning

Symbols

Health Hazard |

Pictograms**Hazard statements**

H373 May cause damage to organs through prolonged or repeated exposure: respiratory system.

Precautionary statements**General:**

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

Prevention:

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

Disposal:

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

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
Silica	7631-86-9	15 - 40
Hydrotreated Light Petroleum Distillates	64742-47-8	10 - 30
Kaolinite	1318-74-7	3 - 7
Solvent Dewaxed Heavy Paraffinic Distillate (Petroleum)	64742-65-0	1 - 5
Glycerin	56-81-5	< 2
Oleic Acid	112-80-1	< 2
Poly(Oxyethylene)Sorbitan Monostearate	9005-67-8	0.1 - 1
Hydrotreated Light Paraffinic Distillates (Petroleum)	64742-55-8	< 1
Solvent Dewaxed Light Paraffinic Distillates (Petroleum)	64742-56-9	< 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:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, 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

Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Non-combustible. Use a fire fighting agent suitable for 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

Keep out of reach of children. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.

7.2. Conditions for safe storage including any incompatibilities

Store away from heat.

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, insoluble compounds	1318-74-7	ACGIH	TWA(respirable fraction):1 mg/m ³	A4: Not class. as human carcin
Kerosine (petroleum)	64742-47-8	ACGIH	TWA(as total hydrocarbon vapor, non-aerosol):200 mg/m ³	A3: Confirmed animal carcin., SKIN
OIL MIST, MINERAL	64742-55-8	Philippines OELs	TWA(as mist)(8 hours):5 mg/m ³	
MINERAL OILS, HIGHLY-REFINED OILS	64742-56-9	ACGIH	TWA(inhalable fraction):5 mg/m ³	A4: Not class. as human carcin
OIL MIST, MINERAL	64742-56-9	Philippines OELs	TWA(as mist)(8 hours):5 mg/m ³	
OIL MIST, MINERAL	64742-65-0	Philippines OELs	TWA(as mist)(8 hours):5 mg/m ³	
PETROLEUM DISTILLATES	64742-65-0	Philippines OELs	TWA(8 hours):2000 mg/m ³ (500 ppm)	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

Philippines OELs : Philippines. Threshold Limit Values for Airborne Contaminants

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. 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
Color	Tan
Odor	Slight Solvent
Odor threshold	<i>No Data Available</i>
pH	7.5 - 8.5
Melting point/Freezing point	<i>Not Applicable</i>
Boiling point/Initial boiling point/Boiling range	98.3 °C
Flash Point	No flash point
Evaporation rate	<i>No Data Available</i>
Flammability	Not Applicable
Flammable Limits(LEL)	<i>No Data Available</i>
Flammable Limits(UEL)	<i>No Data Available</i>
Vapor Pressure	<i>No Data Available</i>
Vapor Density and/or Relative Vapor Density	<i>No Data Available</i>
Density	1.2 g/ml
Relative Density	1.2 [Ref Std:WATER=1]
Water solubility	Negligible
Solubility- non-water	<i>No Data Available</i>
Partition coefficient: n-octanol/ water	<i>No Data Available</i>
Autoignition temperature	<i>No Data Available</i>
Decomposition temperature	<i>No Data Available</i>
Kinematic Viscosity	5,000 mm ² /sec
Volatile Organic Compounds	213 g/l [Test Method:calculated SCAQMD rule 443.1]
Volatile Organic Compounds	15.2 % weight [Test Method:calculated per CARB title 2]
Percent volatile	58.3 % weight
VOC Less H ₂ O & Exempt Solvents	415 g/l [Test Method:calculated SCAQMD rule 443.1]
Molecular weight	<i>No Data Available</i>

Particle Characteristics	<i>No Data Available</i>
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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

Heat
Sparks and/or flames

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	At Elevated Temperatures
Carbon dioxide	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:

May cause additional health effects (see below).

Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

Eye Contact:

Dust created by cutting, 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.

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:

Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.

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
Silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Silica	Inhalation-Dust/Mist	Rat	LC50 > 0.691 mg/l

	(4 hours)		
Silica	Ingestion	Rat	LD50 > 5,110 mg/kg
Hydrotreated Light Petroleum Distillates	Dermal	Rabbit	LD50 > 2,000 mg/kg
Hydrotreated Light Petroleum Distillates	Ingestion	Rat	LD50 > 5,000 mg/kg
Kaolinite	Dermal		LD50 estimated to be > 5,000 mg/kg
Kaolinite	Ingestion	Human	LD50 > 15,000 mg/kg
Solvent Dewaxed Heavy Paraffinic Distillate (Petroleum)	Dermal	Rabbit	LD50 > 5,000 mg/kg
Solvent Dewaxed Heavy Paraffinic Distillate (Petroleum)	Ingestion	Rat	LD50 > 5,000 mg/kg
Solvent Dewaxed Heavy Paraffinic Distillate (Petroleum)	Inhalation-Dust/Mist (4 hours)	similar compounds	LC50 > 4 mg/l
Oleic Acid	Dermal	Guinea pig	LD50 > 3,000 mg/kg
Oleic Acid	Ingestion	Rat	LD50 57,000 mg/kg
Glycerin	Dermal	Rabbit	LD50 estimated to be > 5,000 mg/kg
Glycerin	Ingestion	Rat	LD50 > 5,000 mg/kg
Poly(Oxyethylene)Sorbitan Monostearate	Dermal	Rat	LD50 > 2,000 mg/kg
Poly(Oxyethylene)Sorbitan Monostearate	Ingestion	Rat	LD50 > 60,000 mg/kg
Solvent Dewaxed Light Paraffinic Distillates (Petroleum)	Dermal	Rabbit	LD50 > 5,000 mg/kg
Solvent Dewaxed Light Paraffinic Distillates (Petroleum)	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 4 mg/l
Solvent Dewaxed Light Paraffinic Distillates (Petroleum)	Ingestion	Rat	LD50 > 5,000 mg/kg
Hydrotreated Light Paraffinic Distillates (Petroleum)	Dermal	similar compounds	LD50 > 2,000 mg/kg
Hydrotreated Light Paraffinic Distillates (Petroleum)	Inhalation-Dust/Mist (4 hours)	similar compounds	LC50 > 5.53 mg/l
Hydrotreated Light Paraffinic Distillates (Petroleum)	Ingestion	similar compounds	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Silica	Rabbit	No significant irritation
Hydrotreated Light Petroleum Distillates	similar compounds	Mild irritant
Kaolinite	Professional judgement	No significant irritation
Solvent Dewaxed Heavy Paraffinic Distillate (Petroleum)	Rabbit	No significant irritation
Oleic Acid	Rabbit	Minimal irritation
Glycerin	Rabbit	No significant irritation
Poly(Oxyethylene)Sorbitan Monostearate	Rabbit	No significant irritation
Hydrotreated Light Paraffinic Distillates (Petroleum)	similar compounds	No significant irritation
Solvent Dewaxed Light Paraffinic Distillates (Petroleum)	Rabbit	Minimal irritation

Serious Eye Damage/Irritation

Name	Species	Value
Silica	Rabbit	No significant irritation
Hydrotreated Light Petroleum Distillates	similar compounds	No significant irritation
Kaolinite	Professional judgement	No significant irritation

Solvent Dewaxed Heavy Paraffinic Distillate (Petroleum)	Rabbit	No significant irritation
Oleic Acid	Rabbit	Mild irritant
Glycerin	Rabbit	No significant irritation
Poly(Oxyethylene)Sorbitan Monostearate	Rabbit	No significant irritation
Hydrotreated Light Paraffinic Distillates (Petroleum)	similar compounds	No significant irritation
Solvent Dewaxed Light Paraffinic Distillates (Petroleum)	Rabbit	No significant irritation

Sensitization:

Skin Sensitization

Name	Species	Value
Silica	Human and animal	Not classified
Hydrotreated Light Petroleum Distillates	similar compounds	Not classified
Solvent Dewaxed Heavy Paraffinic Distillate (Petroleum)	Guinea pig	Not classified
Glycerin	Guinea pig	Not classified
Poly(Oxyethylene)Sorbitan Monostearate	Human	Not classified
Hydrotreated Light Paraffinic Distillates (Petroleum)	similar compounds	Not classified
Solvent Dewaxed Light Paraffinic Distillates (Petroleum)	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
Silica	In Vitro	Not mutagenic
Hydrotreated Light Petroleum Distillates	In Vitro	Not mutagenic
Solvent Dewaxed Heavy Paraffinic Distillate (Petroleum)	In Vitro	Not mutagenic
Oleic Acid	In Vitro	Some positive data exist, but the data are not sufficient for classification
Poly(Oxyethylene)Sorbitan Monostearate	In Vitro	Not mutagenic
Hydrotreated Light Paraffinic Distillates (Petroleum)	In Vitro	Not mutagenic
Solvent Dewaxed Light Paraffinic Distillates (Petroleum)	In vivo	Not mutagenic
Solvent Dewaxed Light Paraffinic Distillates (Petroleum)	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Silica	Not Specified	Mouse	Some positive data exist, but the data are not sufficient for classification
Kaolinite	Inhalation	Multiple animal species	Not carcinogenic
Solvent Dewaxed Heavy Paraffinic Distillate (Petroleum)	Dermal	Mouse	Not carcinogenic
Oleic Acid	Dermal	Mouse	Not carcinogenic
Oleic Acid	Ingestion	Rat	Not carcinogenic
Oleic Acid	Not Specified	Multiple animal species	Not carcinogenic
Glycerin	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification
Solvent Dewaxed Light Paraffinic Distillates (Petroleum)	Dermal	Mouse	Some positive data exist, but the data are not

sufficient for classification

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

Name	Route	Value	Species	Test Result	Exposure Duration
Silica	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Silica	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Silica	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
Solvent Dewaxed Heavy Paraffinic Distillate (Petroleum)	Dermal	Not classified for development	Rat	NOAEL 1,000 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
Poly(Oxyethylene)Sorbitan Monostearate	Ingestion	Not classified for male reproduction	Rat	NOAEL 10,000 mg/kg/day	3 generation
Poly(Oxyethylene)Sorbitan Monostearate	Ingestion	Not classified for female reproduction	Rat	NOAEL 10,000 mg/kg/day	3 generation
Poly(Oxyethylene)Sorbitan Monostearate	Ingestion	Not classified for development	Rat	NOAEL 7,693 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
Silica	Inhalation	respiratory system silicosis	Not classified	Human	NOAEL Not available	occupational exposure
Kaolinite	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL NA	occupational exposure
Kaolinite	Inhalation	pulmonary fibrosis	Not classified	Rat	NOAEL Not available	
Solvent Dewaxed Heavy Paraffinic Distillate (Petroleum)	Dermal	skin liver hematopoietic system kidney and/or bladder	Not classified	Rat	NOAEL 2,000 mg/kg/day	13 weeks
Oleic Acid	Ingestion	liver immune system	Not classified	Rat	NOAEL 2,250 mg/kg/day	108 weeks
Oleic Acid	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 2,550 mg/kg/day	108 weeks
Glycerin	Inhalation	respiratory system	Not classified	Rat	NOAEL 3.91	14 days

		heart liver kidney and/or bladder			mg/l	
Glycerin	Ingestion	endocrine system hematopoietic system liver kidney and/or bladder	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Poly(Oxyethylene)Sorbitan Monostearate	Ingestion	gastrointestinal tract liver hematopoietic system	Not classified	Rat	NOAEL 12,500 mg/kg/day	2 years
Solvent Dewaxed Light Paraffinic Distillates (Petroleum)	Dermal	hematopoietic system liver kidney and/or bladder	Not classified	Rabbit	NOAEL 5,000 mg/kg/day	3 weeks

Aspiration Hazard

Name	Value
Hydrotreated Light Petroleum Distillates	Aspiration hazard
Solvent Dewaxed Heavy Paraffinic Distillate (Petroleum)	Not an aspiration hazard
Hydrotreated Light Paraffinic Distillates (Petroleum)	Aspiration hazard
Solvent Dewaxed Light Paraffinic Distillates (Petroleum)	Aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labeling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:

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
Silica	7631-86-9	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Hydrotreated Light Petroleum Distillates	64742-47-8	Green algae	Analogous Compound	72 hours	EL50	>1,000 mg/l
Hydrotreated Light Petroleum Distillates	64742-47-8	Rainbow Trout	Analogous Compound	96 hours	LL50	>1,000 mg/l
Hydrotreated Light Petroleum Distillates	64742-47-8	Water flea	Analogous Compound	48 hours	EL50	>1,000 mg/l
Hydrotreated Light Petroleum Distillates	64742-47-8	Green algae	Analogous Compound	72 hours	NOEL	1,000 mg/l
Kaolinite	1318-74-7	N/A	Data not available or insufficient for	N/A	N/A	N/A

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			classification			
Solvent Dewaxed Heavy Paraffinic Distillate (Petroleum)	64742-65-0	Green algae	Analogous Compound	96 hours	EC50	>100 mg/l
Solvent Dewaxed Heavy Paraffinic Distillate (Petroleum)	64742-65-0	Water flea	Analogous Compound	48 hours	EC50	>100 mg/l
Solvent Dewaxed Heavy Paraffinic Distillate (Petroleum)	64742-65-0	Rainbow Trout	Experimental	96 hours	LC50	>100 mg/l
Solvent Dewaxed Heavy Paraffinic Distillate (Petroleum)	64742-65-0	Water flea	Experimental	21 days	NOEC	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
Oleic Acid	112-80-1	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Hydrotreated Light Paraffinic Distillates (Petroleum)	64742-55-8	Fathead Minnow	Estimated	96 hours	LL50	>100 mg/l
Hydrotreated Light Paraffinic Distillates (Petroleum)	64742-55-8	Water flea	Estimated	48 hours	EL50	>100 mg/l
Hydrotreated Light Paraffinic Distillates (Petroleum)	64742-55-8	Green algae	Estimated	72 hours	NOEL	100 mg/l
Hydrotreated Light Paraffinic Distillates (Petroleum)	64742-55-8	Water flea	Estimated	21 days	NOEC	10 mg/l
Poly(Oxyethylene) Sorbitan Monostearate	9005-67-8	Copepod	Analogous Compound	48 hours	LL50	>10,000 mg/l
Poly(Oxyethylene) Sorbitan Monostearate	9005-67-8	Green algae	Analogous Compound	72 hours	EL50	58.84 mg/l
Poly(Oxyethylene) Sorbitan Monostearate	9005-67-8	Zebra Fish	Analogous Compound	96 hours	LL50	>100 mg/l
Poly(Oxyethylene) Sorbitan Monostearate	9005-67-8	Green algae	Analogous Compound	72 hours	EC10	19.05 mg/l
Poly(Oxyethylene) Sorbitan Monostearate	9005-67-8	Water flea	Analogous Compound	21 days	NOEL	10 mg/l
Solvent Dewaxed Light Paraffinic Distillates (Petroleum)	64742-56-9	Fathead Minnow	Estimated	96 hours	LL50	>100 mg/l
Solvent Dewaxed Light Paraffinic Distillates (Petroleum)	64742-56-9	Green algae	Estimated	72 hours	EL50	>100 mg/l
Solvent Dewaxed Light Paraffinic Distillates (Petroleum)	64742-56-9	Water flea	Estimated	48 hours	EL50	>100 mg/l
Solvent Dewaxed Light Paraffinic	64742-56-9	Green algae	Estimated	72 hours	NOEL	100 mg/l

Distillates (Petroleum)						
Solvent Dewaxed Light Paraffinic Distillates (Petroleum)	64742-56-9	Water flea	Estimated	21 days	NOEL	100 mg/l

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Silica	7631-86-9	Data not available or insufficient	N/A	N/A	N/A	N/A
Hydrotreated Light Petroleum Distillates	64742-47-8	Experimental Biodegradation	28 hours	Biological Oxygen Demand	77.6 %BOD/ThOD	OECD 301F - Manometric Respiro
Hydrotreated Light Petroleum Distillates	64742-47-8	Analogous Compound Biodegradation	28 days	Biological Oxygen Demand	68.8 %BOD/ThOD	OECD 306(Misc)-Biodegrad. Seaw
Hydrotreated Light Petroleum Distillates	64742-47-8	Analogous Compound Soil Inherent Biodegradability	61 days	Biological Oxygen Demand	>60 %BOD/ThOD	OECD 304A-Inherent Biodegrad.
Kaolinite	1318-74-7	Data not available or insufficient	N/A	N/A	N/A	N/A
Solvent Dewaxed Heavy Paraffinic Distillate (Petroleum)	64742-65-0	Experimental Biodegradation	28 days	Carbon dioxide evolution	23 %CO2 evolution/THCO2 evolution	similar to OECD 301B
Glycerin	56-81-5	Experimental Biodegradation	14 days	Biological Oxygen Demand	63 %BOD/ThOD	OECD 301C - MITI (I)
Oleic Acid	112-80-1	Experimental Biodegradation	28 days	Biological Oxygen Demand	78 %BOD/ThOD	OECD 301C - MITI (I)
Hydrotreated Light Paraffinic Distillates (Petroleum)	64742-55-8	Estimated Biodegradation	28 days	Carbon dioxide evolution	22 %CO2 evolution/THCO2 evolution	OECD 301B - Mod. Sturm or CO2
Poly(Oxyethylene) Sorbitan Monostearate	9005-67-8	Analogous Compound Biodegradation	28 days	Carbon dioxide evolution	61 %CO2 evolution/THCO2 evolution	ISO 14593 Inorg C Headspace
Solvent Dewaxed Light Paraffinic Distillates (Petroleum)	64742-56-9	Analogous Compound Biodegradation	28 days	Biological Oxygen Demand	31 %BOD/ThOD	OECD 301F - Manometric Respiro

12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Silica	7631-86-9	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
Kaolinite	1318-74-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Solvent Dewaxed Heavy Paraffinic Distillate (Petroleum)	64742-65-0	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.	-1.76	

				coeff		
Oleic Acid	112-80-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Hydrotreated Light Paraffinic Distillates (Petroleum)	64742-55-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Poly(Oxyethylene) Sorbitan Monostearate	9005-67-8	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	0.03	
Solvent Dewaxed Light Paraffinic Distillates (Petroleum)	64742-56-9	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

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

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

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 material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

SECTION 16: Other information

Revision information:

Section 01: Product identification numbers information was added.

Section 02: PH GHS Classification information was modified.

Section 02: PH Hazard - Cat 2 Repeated Target Organ information was modified.

Section 02: PH Precautionary - General information was added.

Section 02: PH Precautionary - Prevention information was modified.

Section 03: Ingredient table information was modified.

Section 08: Occupational exposure limit table information was modified.

Section 09: Flammability (solid, gas) information information was deleted.

Section 09: Flammability information information was added.

Section 09: Kinematic Viscosity information information was added.

Section 09: Particle Characteristics N/A information was added.

Section 09: Viscosity information was deleted.

Section 11: Acute Toxicity table information was modified.

Section 11: Aspiration Hazard Table information was modified.

Section 11: Carcinogenicity Table information was modified.

Section 11: Germ Cell Mutagenicity Table information was modified.

Section 11: Reproductive Toxicity Table information was modified.

Section 11: Serious Eye Damage/Irritation Table information was modified.

Section 11: Skin Corrosion/Irritation Table information was modified.

Section 11: Skin Sensitization Table information was modified.

Section 11: Specific Target Organ Toxicity - single exposure text information was deleted.

Section 11: Target Organs - Repeated Table information was modified.

Section 11: Target Organs - Single Table information was added.

Section 12: Component ecotoxicity information information was modified.

Section 12: Persistence and Degradability information information was modified.

Section 12: Bioaccumulative potential information information was modified.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

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