Safety Data Sheet

Document Group:	44-0862-1	**Version Number:**	2.01
Issue Date:	04/05/2023	**Supercedes Date:**	03/21/2023

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
36060, 36061 Prft-It EX AC Rubn Cmpd, Qt

Product Identification Numbers
UU-0117-4974-2

1.2. Recommended use and restrictions on use

Recommended use
Adhesive

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
Skin Sensitizer: Category 1.
Chronic Aquatic Toxicity: Category 3.

2.2. Label elements
Signal word
Warning

Symbols
Exclamation mark |

Pictograms

Hazard statements

H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention:

P280E	Wear protective gloves.

Response:

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

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	50 - 70
Aluminum Oxide	1344-28-1	10 - 20
HYDROTREATED LIGHT PETROLEUM DISTILLATES	64742-47-8	10 - 20
White mineral oil (petroleum)	8042-47-5	< 3
Alcohols, C16-18 and C18-unsatd. unsaturated alkyl alcohol and SDA Reporting Number: 11-060-00. Consult SDA Substance Identification Procedure.	68002-94-8	< 2
Triethanolamine	102-71-6	< 2
2-Methyl-4-isothiazoline-3-one	2682-20-4	< 0.1
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	< 0.025

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

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

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

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

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

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

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media
In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

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

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Oxides of Nitrogen	During Combustion

5.3. Special protective actions for fire-fighters
Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Evacuate area. 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. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up
Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. 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 dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke

when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse.

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
Triethanolamine	102-71-6	ACGIH	TWA:5 mg/m3	
Aluminum, insoluble compounds	1344-28-1	ACGIH	TWA(respirable fraction):1 mg/m3	A4: Not class. as human carcin
DUST, INERT OR NUISANCE	1344-28-1	Philippines OELs	TWA(as total dust)(8 hours):50 millions of particles/cu. ft.;TWA(respirable fraction)(8 hours):15 millions of particles/cu. ft.	
Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles	1344-28-1	ACGIH	TWA(inhalable particulates):10 mg/m3	
Particles (insoluble or poorly soluble) not otherwise specified, respirable particles	1344-28-1	ACGIH	TWA(respirable particles):3 mg/m3	
JET FUELS (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR	64742-47-8	ACGIH	TWA(as total hydrocarbon vapor, non-aerosol):200 mg/m3	A3: Confirmed animal carcin., SKIN
Kerosine (petroleum)	64742-47-8	ACGIH	TWA(as total hydrocarbon vapor, non-aerosol):200 mg/m3	A3: Confirmed animal carcin., SKIN
MINERAL OILS, HIGHLY-REFINED OILS	8042-47-5	ACGIH	TWA(inhalable fraction):5 mg/m3	A4: Not class. as human carcin
OIL MIST, MINERAL	8042-47-5	Philippines OELs	TWA(as mist)(8 hours):5 mg/m3	

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

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

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Respiratory protection
None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Specific Physical Form:	Liquid like water
Color	Brown
Odor	Solvent
Odor threshold	*No Data Available*
pH	7.5 - 8.5
Melting point/Freezing point	*Not Applicable*
Boiling point/Initial boiling point/Boiling range	98.3 ºC
Flash Point	*No Data Available*
Evaporation rate	*No Data Available*
Flammability (solid, gas)	Not Applicable
Flammable Limits(LEL)	*No Data Available*
Flammable Limits(UEL)	*No Data Available*
Vapor Pressure	*No Data Available*
Vapor Density and/or Relative Vapor Density	*No Data Available*
Density	1.2 g/ml
Relative Density	1.2
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*
Viscosity/Kinematic Viscosity	6,000 - 18,000 mPa-s [*Test Method:*Brookfield]
Volatile Organic Compounds	*No Data Available*
Percent volatile	*No Data Available*
VOC Less H2O & Exempt Solvents	*No Data Available*
Molecular weight	*No Data Available*
Kinematic Viscosity	5,000 mm2/sec

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
Not determined (RMs only)

10.4. Conditions to avoid
Not determined

10.5. Incompatible materials
Not determined

10.6. Hazardous decomposition products

Substance	Condition
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:
No known health effects.

Skin Contact:
Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

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

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

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

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Inhalation-		No data available; calculated ATE >50 mg/l

	Vapor(4 hr)		
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
HYDROTREATED LIGHT PETROLEUM DISTILLATES	Inhalation-Vapor	Professional judgement	LC50 estimated to be 20 - 50 mg/l
HYDROTREATED LIGHT PETROLEUM DISTILLATES	Dermal	Rabbit	LD50 > 5,000 mg/kg
HYDROTREATED LIGHT PETROLEUM DISTILLATES	Ingestion	Rat	LD50 > 5,000 mg/kg
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
White mineral oil (petroleum)	Dermal	Rabbit	LD50 > 2,000 mg/kg
White mineral oil (petroleum)	Ingestion	Rat	LD50 > 5,000 mg/kg
Triethanolamine	Dermal	Rabbit	LD50 > 2,000 mg/kg
Triethanolamine	Ingestion	Rat	LD50 9,000 mg/kg
2-Methyl-4-isothiazoline-3-one	Dermal	Rat	LD50 242 mg/kg
2-Methyl-4-isothiazoline-3-one	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.11 mg/l
2-Methyl-4-isothiazoline-3-one	Ingestion	Rat	LD50 120 mg/kg
2-OCTYL-3(2H)-ISOTHIAZOLONE	Dermal	Rabbit	LD50 311 mg/kg
2-OCTYL-3(2H)-ISOTHIAZOLONE	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.27 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	Ingestion	Rat	LD50 125 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
HYDROTREATED LIGHT PETROLEUM DISTILLATES	Rabbit	Mild irritant
Aluminum Oxide	Rabbit	No significant irritation
White mineral oil (petroleum)	Rabbit	No significant irritation
Triethanolamine	Rabbit	Minimal irritation
2-Methyl-4-isothiazoline-3-one	Rabbit	Corrosive
2-OCTYL-3(2H)-ISOTHIAZOLONE	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
HYDROTREATED LIGHT PETROLEUM DISTILLATES	Rabbit	Mild irritant
Aluminum Oxide	Rabbit	No significant irritation
White mineral oil (petroleum)	Rabbit	Mild irritant
Triethanolamine	Rabbit	Mild irritant
2-Methyl-4-isothiazoline-3-one	Rabbit	Corrosive
2-OCTYL-3(2H)-ISOTHIAZOLONE	similar health hazards	Corrosive

Sensitization:

Skin Sensitization

Name	Species	Value
HYDROTREATED LIGHT PETROLEUM DISTILLATES	Guinea pig	Not classified
White mineral oil (petroleum)	Guinea pig	Not classified
Triethanolamine	Human	Not classified
2-Methyl-4-isothiazoline-3-one	Human and	Sensitizing

	animal	
2-OCTYL-3(2H)-ISOTHIAZOLONE	Human and animal	Sensitizing

Photosensitization

Name	Species	Value
2-Methyl-4-isothiazoline-3-one	Human and animal	Not sensitizing

Respiratory Sensitization

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

Germ Cell Mutagenicity

Name	Route	Value
HYDROTREATED LIGHT PETROLEUM DISTILLATES	In Vitro	Not mutagenic
HYDROTREATED LIGHT PETROLEUM DISTILLATES	In vivo	Not mutagenic
Aluminum Oxide	In Vitro	Not mutagenic
White mineral oil (petroleum)	In Vitro	Not mutagenic
Triethanolamine	In Vitro	Not mutagenic
Triethanolamine	In vivo	Not mutagenic
2-Methyl-4-isothiazoline-3-one	In vivo	Not mutagenic
2-Methyl-4-isothiazoline-3-one	In Vitro	Some positive data exist, but the data are not sufficient for classification
2-OCTYL-3(2H)-ISOTHIAZOLONE	In Vitro	Not mutagenic
2-OCTYL-3(2H)-ISOTHIAZOLONE	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
HYDROTREATED LIGHT PETROLEUM DISTILLATES	Not Specified	Not available	Not carcinogenic
Aluminum Oxide	Inhalation	Rat	Not carcinogenic
White mineral oil (petroleum)	Dermal	Mouse	Not carcinogenic
White mineral oil (petroleum)	Inhalation	Multiple animal species	Not carcinogenic
Triethanolamine	Dermal	Multiple animal species	Not carcinogenic
Triethanolamine	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification
2-Methyl-4-isothiazoline-3-one	Dermal	Mouse	Not carcinogenic
2-Methyl-4-isothiazoline-3-one	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
HYDROTREATED LIGHT PETROLEUM DISTILLATES	Not Specified	Not classified for female reproduction	Rat	NOAEL Not available	1 generation
HYDROTREATED LIGHT PETROLEUM DISTILLATES	Not Specified	Not classified for male reproduction	Rat	NOAEL Not available	1 generation
HYDROTREATED LIGHT PETROLEUM DISTILLATES	Not Specified	Not classified for development	Rat	NOAEL Not available	1 generation
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	13 weeks

				mg/kg/day	
White mineral oil (petroleum)	Ingestion	Not classified for development	Rat	NOAEL 4,350 mg/kg/day	during gestation
Triethanolamine	Ingestion	Not classified for development	Mouse	NOAEL 1,125 mg/kg/day	during organogenesis
2-Methyl-4-isothiazoline-3-one	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
2-Methyl-4-isothiazoline-3-one	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
2-Methyl-4-isothiazoline-3-one	Ingestion	Not classified for development	Rat	NOAEL 15 mg/kg/day	during organogenesis
2-OCTYL-3(2H)-ISOTHIAZOLONE	Ingestion	Not classified for development	Rabbit	NOEL 20 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
2-Methyl-4-isothiazoline-3-one	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
2-OCTYL-3(2H)-ISOTHIAZOLONE	Inhalation	respiratory irritation	May cause respiratory irritation	Rat	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
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
Triethanolamine	Dermal	kidney and/or bladder	Not classified	Multiple animal species	NOAEL 2,000 mg/kg/day	2 years
Triethanolamine	Dermal	liver	Not classified	Mouse	NOAEL 4,000 mg/kg/day	13 weeks
Triethanolamine	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 1,000 mg/kg/day	2 years
Triethanolamine	Ingestion	liver	Not classified	Guinea pig	NOAEL 1,600 mg/kg/day	24 weeks

Aspiration Hazard

Name	Value
HYDROTREATED LIGHT PETROLEUM DISTILLATES	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:
GHS Acute 3: Harmful to aquatic life.

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

No product test data available

Material	Cas #	Organism	Type	Exposure	Test Endpoint	Test Result
Aluminum Oxide	1344-28-1	Fish	Experimental	96 hours	LC50	>100 mg/l
Aluminum Oxide	1344-28-1	Green algae	Experimental	72 hours	EC50	>100 mg/l
Aluminum Oxide	1344-28-1	Water flea	Experimental	48 hours	LC50	>100 mg/l
Aluminum Oxide	1344-28-1	Green algae	Experimental	72 hours	NOEC	>100 mg/l
HYDROTREATED LIGHT PETROLEUM DISTILLATES	64742-47-8	Green algae	Experimental	72 hours	EL50	>1,000 mg/l
HYDROTREATED LIGHT PETROLEUM DISTILLATES	64742-47-8	Rainbow Trout	Experimental	96 hours	LL50	>1,000 mg/l
HYDROTREATED LIGHT PETROLEUM DISTILLATES	64742-47-8	Water flea	Experimental	48 hours	EL50	>1,000 mg/l
HYDROTREATED LIGHT PETROLEUM DISTILLATES	64742-47-8	Green algae	Experimental	72 hours	NOEL	1,000 mg/l
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
Alcohols, C16-18 and C18-unsatd. unsaturated alkyl alcohol and SDA Reporting Number: 11-060-00. Consult SDA Substance Identification Procedure.	68002-94-8	Water flea	Experimental	48 hours	EC50	70 mg/l
Triethanolamine	102-71-6	Activated sludge	Experimental	3 hours	IC50	>1,000 mg/l
Triethanolamine	102-71-6	Fathead Minnow	Experimental	96 hours	LC50	11,800 mg/l
Triethanolamine	102-71-6	Green algae	Experimental	72 hours	ErC50	512 mg/l
Triethanolamine	102-71-6	Water flea	Experimental	48 hours	EC50	609.98 mg/l
Triethanolamine	102-71-6	Green algae	Experimental	72 hours	ErC10	26 mg/l
Triethanolamine	102-71-6	Water flea	Experimental	21 days	NOEC	16 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Activated sludge	Experimental	3 hours	EC50	41 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Green algae	Experimental	96 hours	ErC50	0.23 mg/l

2-Methyl-4-isothiazoline-3-one	2682-20-4	Mysid Shrimp	Experimental	96 hours	LC50	1.81 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Rainbow Trout	Experimental	96 hours	LC50	4.77 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Water flea	Experimental	48 hours	EC50	0.934 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Fathead Minnow	Experimental	33 days	NOEC	2.1 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Green algae	Experimental	96 hours	NOEC	0.12 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Water flea	Experimental	21 days	NOEC	0.044 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Diatom	Experimental	72 hours	EC50	0.0015 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Green algae	Experimental	72 hours	EC50	0.084 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Mysid Shrimp	Experimental	96 hours	LC50	0.071 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Rainbow Trout	Experimental	96 hours	LC50	0.036 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Sheepshead Minnow	Experimental	96 hours	LC50	0.18 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Water flea	Experimental	48 hours	EC50	0.42 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Diatom	Experimental	72 hours	NOEC	0.00068 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Green algae	Experimental	72 hours	NOEC	0.0156 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Water flea	Experimental	21 days	NOEC	0.0016 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Activated sludge	Experimental	3 hours	EC50	30.4 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Bobwhite quail	Experimental	14 days	LD50	384 ppm diet
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Lettuce	Experimental	17 days	EC50	45 mg/kg (Dry Weight)
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Redworm	Experimental	14 days	LC50	866 mg/kg (Dry Weight)
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Soil microbes	Experimental	28 days	EC50	84.1 mg/kg (Dry Weight)

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Aluminum Oxide	1344-28-1	Data not availbl-insufficient	N/A	N/A	N/A	N/A
HYDROTREATED LIGHT PETROLEUM	64742-47-8	Estimated Biodegradation	28 days	Biological Oxygen Demand	69 %BOD/ThOD	OECD 301F - Manometric Respiro

DISTILLATES						
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
Alcohols, C16-18 and C18-unsatd. unsaturated alkyl alcohol and SDA Reporting Number: 11-060-00. Consult SDA Substance Identification Procedure.	68002-94-8	Experimental Biodegradation	28 days	Biological Oxygen Demand	87 %BOD/ThOD	OECD 301D - Closed Bottle Test
Triethanolamine	102-71-6	Experimental Biodegradation	19 days	Dissolv. Organic Carbon Deplet	96 %removal of DOC	similar to OECD 301E
2-Methyl-4-isothiazoline-3-one	2682-20-4	Experimental Biodegradation	29 days	Carbon dioxide evolution	50 %CO2 evolution/THCO2 evolution	OECD 301B - Mod. Sturm or CO2
2-Methyl-4-isothiazoline-3-one	2682-20-4	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>1 years (t 1/2)	OECD 111 Hydrolysis func of pH
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Experimental Biodegradation	28 days	Biological Oxygen Demand	< 10 %BOD/ThOD	OECD 301D - Closed Bottle Test
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Experimental Aquatic Inherent Biodegrad.	59 days	Dissolv. Organic Carbon Deplet	88 %removal of DOC	OECD 303A - Simulated Aerobic

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
White mineral oil (petroleum)	8042-47-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Alcohols, C16-18 and C18-unsatd. unsaturated alkyl alcohol and SDA Reporting Number: 11-060-00. Consult SDA Substance Identification Procedure.	68002-94-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Triethanolamine	102-71-6	Experimental BCF - Fish	42 days	Bioaccumulation Factor	<3.9	similar to OECD 305
2-Methyl-4-isothiazoline-3-one	2682-20-4	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	-0.486	OECD 107 log Kow shke flsk mtd
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	2.92	OECD 117 log Kow HPLC method

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.

SECTION 16: Other information

Revision information:
Section 01: Product identification numbers information was added.
Section 14: Transportation Information information was added.

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

3M Philippines SDSs are available at www.3m.com/ph