



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Minister of Industry Decree No. 23/M-IND/PER/4/2013 and GHS Classification 4th Edition.

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SECTION 1: Identification

1.1. Product identifier

3M™ Finesse-it™ Advanced Series K211 [215]

Product Identification Numbers

60-4402-4057-4	60-4402-4159-8	60-4402-4172-1	60-4402-4361-0	XH-0038-5828-5
XI-0039-9493-0				

1.2. Recommended use and restrictions on use

Recommended use

Industrial use

1.3. Supplier's details

ADDRESS:	PT 3M Indonesia , Perkantoran Hijau Arkadia, Menara F, Lt. 8. Jl. TB. Simatupang Kav. 88, Jakarta Selatan, 12520, Indonesia
Telephone:	+6221-29974000
Website:	https://www.3m.co.id/3M/en_ID/company-id/

1.4. Emergency telephone number

(021)29974000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Skin Corrosion/Irritation: Category 3.

Acute Aquatic Toxicity: Category 3.

Chronic Aquatic Toxicity: Category 3.

2.2. Label elements

Signal word

Warning

Symbols

Not applicable

Pictograms

Not applicable

HAZARD STATEMENTS:

H316 Causes mild skin irritation.

H412 Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS**Disposal:**

P501 Dispose of contents and container in accordance with applicable local, regional, national, and 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	40 - 60
Aluminum Oxide Mineral	1344-28-1	15 - 20
Hydrotreated Light Petroleum Distillates	64742-47-8	15 - 20
Mineral Oil	8042-47-5	2 - 10
Glycerin	56-81-5	3 - 7
Polymer	34398-01-1	1 - 5
1,2-Benzisothiazolin-3-One	2634-33-5	0.01 - 0.1

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

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**

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

Hydrocarbons
Carbon monoxide
Carbon dioxide

Condition

During Combustion
During Combustion
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

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. 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.

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 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

Keep from freezing.

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 Oxide Mineral	1344-28-1	Indonesia OELs	TWA(Total inhalable dust)(8 hours):10 mg/m ³ ;TWA(8 hours):10 mg/m ³	
Particles (insoluble or poorly soluble) not otherwise specified, respirable particles	1344-28-1	ACGIH	TWA(respirable particles):3 mg/m ³	
Glycerin	56-81-5	Indonesia OELs	TWA(as mist)(8 hours):10 mg/m ³	
Kerosine (petroleum)	64742-47-8	ACGIH	TWA(as total hydrocarbon vapor, non-aerosol):200 mg/m ³	A3: Confirmed animal carcin., SKIN
MINERAL OILS, HIGHLY-REFINED OILS	8042-47-5	ACGIH	TWA(inhalable fraction):5 mg/m ³	A4: Not class. as human carcin
OIL MIST, MINERAL	8042-47-5	Indonesia OELs	TWA(as mist)(8 hours):5 mg/m ³ ;STEL(as mist)(15 minutes):10 mg/m ³	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

Indonesia OELs : Indonesia. Minister of Manpower and Transmigration Decree No. 13/MEN/X/2011 concerning Threshold Values, Chemical and Physical Factors in the Workplace.

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	White
Odor	Slight Solvent
Odor threshold	No Data Available
pH	8.2 - 8.7
Melting point/Freezing point	Not Applicable
Boiling point/Initial boiling point/Boiling range	No Data Available
Flash Point	99 °C [Test Method: Closed Cup]
Evaporation rate	No Data Available
Flammability	Not Applicable
Flammable Limits(LEL)	No Data Available
Flammable Limits(UEL)	No Data Available
Vapor Pressure	No Data Available
Relative Vapor Density	No Data Available
Density	No Data Available
Relative Density	1.07 - 1.12 [Ref Std: WATER=1]
Water solubility	Negligible
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	18.2 % weight [Details: Calculated]
Percent volatile	71.8 % [Details: Calculated including water]
VOC Less H ₂ O & Exempt Solvents	489 g/l [Details: Calculated]
Average particle size	No Data Available
Bulk density	No Data Available
Molecular weight	Not Applicable

Particle Characteristics	No Data Available
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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

Sparks and/or flames

High shear and high temperature conditions

10.5. Incompatible materials

Alkali and alkaline earth metals

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:

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

Skin Contact:

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

Eye Contact:

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.

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-Vapor(4 hr)		No data available; calculated ATE >50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Hydrotreated Light Petroleum Distillates	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.4 mg/l
Hydrotreated Light Petroleum Distillates	Dermal	similar	LD50 > 5,000 mg/kg

		compound	
Hydrotreated Light Petroleum Distillates	Ingestion	similar compounds	LD50 > 5,000 mg/kg
Aluminum Oxide Mineral	Dermal		LD50 estimated to be > 5,000 mg/kg
Aluminum Oxide Mineral	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.3 mg/l
Aluminum Oxide Mineral	Ingestion	Rat	LD50 > 5,000 mg/kg
Mineral Oil	Dermal	Rabbit	LD50 > 2,000 mg/kg
Mineral Oil	Ingestion	Rat	LD50 > 5,000 mg/kg
Glycerin	Dermal	Rabbit	LD50 estimated to be > 5,000 mg/kg
Glycerin	Ingestion	Rat	LD50 > 5,000 mg/kg
Polymer	Dermal	Rabbit	LD50 > 2,000 mg/kg
Polymer	Ingestion	Rat	LD50 > 700 mg/kg
1,2-Benzisothiazolin-3-One	Dermal	Rat	LD50 > 2,000 mg/kg
1,2-Benzisothiazolin-3-One	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.21 mg/l
1,2-Benzisothiazolin-3-One	Ingestion	Rat	LD50 450 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Hydrotreated Light Petroleum Distillates	similar compounds	Mild irritant
Aluminum Oxide Mineral	Rabbit	No significant irritation
Mineral Oil	Rabbit	No significant irritation
Glycerin	Rabbit	No significant irritation
Polymer	similar health hazards	Irritant
1,2-Benzisothiazolin-3-One	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Hydrotreated Light Petroleum Distillates	similar compounds	No significant irritation
Aluminum Oxide Mineral	Rabbit	No significant irritation
Mineral Oil	Rabbit	Mild irritant
Glycerin	Rabbit	No significant irritation
Polymer	Professional judgement	Corrosive
1,2-Benzisothiazolin-3-One	Rabbit	Corrosive

Sensitization:

Skin Sensitization

Name	Species	Value
Hydrotreated Light Petroleum Distillates	similar compounds	Not classified
Mineral Oil	Guinea pig	Not classified
Glycerin	Guinea pig	Not classified

1,2-Benzisothiazolin-3-One	Guinea pig	Sensitizing
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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
Aluminum Oxide Mineral	In Vitro	Not mutagenic
Mineral Oil	In Vitro	Not mutagenic
1,2-Benzisothiazolin-3-One	In vivo	Not mutagenic
1,2-Benzisothiazolin-3-One	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Aluminum Oxide Mineral	Inhalation	Rat	Not carcinogenic
Mineral Oil	Dermal	Mouse	Not carcinogenic
Mineral Oil	Inhalation	Multiple animal species	Not carcinogenic
Glycerin	Ingestion	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
Mineral Oil	Ingestion	Not classified for female reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
Mineral Oil	Ingestion	Not classified for male reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
Mineral Oil	Ingestion	Not classified for development	Rat	NOAEL 4,350 mg/kg/day	during gestation
Glycerin	Ingestion	Not classified for female reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerin	Ingestion	Not classified for male reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerin	Ingestion	Not classified for development	Rat	NOAEL 2,000 mg/kg/day	2 generation
1,2-Benzisothiazolin-3-One	Ingestion	Not classified for female reproduction	Rat	NOAEL 112 mg/kg/day	2 generation
1,2-Benzisothiazolin-3-One	Ingestion	Not classified for male reproduction	Rat	NOAEL 112 mg/kg/day	2 generation
1,2-Benzisothiazolin-3-One	Ingestion	Not classified for development	Rat	NOAEL 112 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
Polymer	Inhalation	respiratory irritation	May cause respiratory irritation	similar health	NOAEL Not available	

				hazards		
1,2-Benzisothiazolin-3-One	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Aluminum Oxide Mineral	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Aluminum Oxide Mineral	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure
Mineral Oil	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,381 mg/kg/day	90 days
Mineral Oil	Ingestion	liver immune system	Not classified	Rat	NOAEL 1,336 mg/kg/day	90 days
Glycerin	Inhalation	respiratory system heart liver kidney and/or bladder	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerin	Ingestion	endocrine system hematopoietic system liver kidney and/or bladder	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
1,2-Benzisothiazolin-3-One	Ingestion	liver hematopoietic system eyes kidney and/or bladder respiratory system	Not classified	Rat	NOAEL 322 mg/kg/day	90 days
1,2-Benzisothiazolin-3-One	Ingestion	heart endocrine system nervous system	Not classified	Rat	NOAEL 150 mg/kg/day	28 days

Aspiration Hazard

Name	Value
Hydrotreated Light Petroleum Distillates	Aspiration hazard
Mineral Oil	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 Mineral	1344-28-1	Fish	Experimental	96 hours	LC50	>100 mg/l
Aluminum Oxide Mineral	1344-28-1	Green algae	Experimental	72 hours	EC50	>100 mg/l
Aluminum Oxide Mineral	1344-28-1	Water flea	Experimental	48 hours	LC50	>100 mg/l
Aluminum Oxide Mineral	1344-28-1	Green algae	Experimental	72 hours	NOEC	>100 mg/l
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	Water flea	Analogous Compound	48 hours	EL50	>1,000 mg/l
Hydrotreated Light Petroleum Distillates	64742-47-8	Rainbow Trout	Experimental	96 hours	LL50	>788,000 mg/l
Hydrotreated Light Petroleum Distillates	64742-47-8	Scud	Experimental	96 hours	LL50	>10,000 mg/l
Hydrotreated Light Petroleum Distillates	64742-47-8	Green algae	Analogous Compound	72 hours	NOEL	1,000 mg/l
Hydrotreated Light Petroleum Distillates	64742-47-8	Water flea	Analogous Compound	21 days	NOEL	>1 mg/l
Mineral Oil	8042-47-5	Water flea	Analogous Compound	48 hours	EL50	>100 mg/l
Mineral Oil	8042-47-5	Bluegill	Experimental	96 hours	LL50	>100 mg/l
Mineral Oil	8042-47-5	Green algae	Analogous Compound	72 hours	NOEL	100 mg/l
Mineral Oil	8042-47-5	Water flea	Analogous Compound	21 days	NOEL	>100 mg/l
Glycerin	56-81-5	Rainbow Trout	Experimental	96 hours	LC50	54,000 mg/l
Glycerin	56-81-5	Water flea	Experimental	48 hours	LC50	1,955 mg/l
Glycerin	56-81-5	Bacteria	Experimental	16 hours	NOEC	10,000 mg/l
Polymer	34398-01-1	Green algae	Analogous Compound	72 hours	ErC50	0.43 mg/l
Polymer	34398-01-1	Green algae	Analogous Compound	72 hours	NOEC	0.09 mg/l
1,2-Benzisothiazolin-3-One	2634-33-5	Green algae	Experimental	72 hours	ErC50	0.11 mg/l
1,2-Benzisothiazolin-3-One	2634-33-5	Rainbow Trout	Experimental	96 hours	LC50	1.6 mg/l
1,2-Benzisothiazolin-3-One	2634-33-5	Sheepshead Minnow	Experimental	96 hours	LC50	16.7 mg/l
1,2-Benzisothiazolin-3-One	2634-33-5	Water flea	Experimental	48 hours	EC50	2.9 mg/l
1,2-Benzisothiazolin-3-One	2634-33-5	Green algae	Experimental	72 hours	NOEC	0.0403 mg/l
1,2-Benzisothiazolin-3-One	2634-33-5	Activated sludge	Experimental	3 hours	EC50	12.8 mg/l
1,2-Benzisothiazolin-3-One	2634-33-5	Bobwhite quail	Experimental	14 days	LD50	617 mg per kg of bodyweight
1,2-Benzisothiazolin-3-One	2634-33-5	Cabbage	Experimental	14 days	EC50	200 mg/kg (Dry Weight)
1,2-	2634-33-5	Redworm	Experimental	14 days	LC50	>410.6 mg/kg (Dry Weight)

Benzisothiazolin-3-One						
1,2-Benzisothiazolin-3-One	2634-33-5	Soil microbes	Experimental	28 days	EC50	>811.5 mg/kg (Dry Weight)

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Aluminum Oxide Mineral	1344-28-1	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Hydrotreated Light Petroleum Distillates	64742-47-8	Experimental Biodegradation	28 days	Biological Oxygen Demand	22 %BOD/ThOD	OECD 301F - Manometric Respiro
Mineral Oil	8042-47-5	Experimental Biodegradation	28 days	Carbon dioxide evolution	0 %CO2 evolution/THCO2 evolution	OECD 301B - Mod. Sturm or CO2
Glycerin	56-81-5	Experimental Biodegradation	14 days	Biological Oxygen Demand	63 %BOD/ThOD	OECD 301C - MITI (I)
Polymer	34398-01-1	Modeled Biodegradation	28 days	Carbon dioxide evolution	95 %CO2 evolution/THCO2 evolution	Catalogic™
1,2-Benzisothiazolin-3-One	2634-33-5	Experimental Biodegradation	28 days	Biological Oxygen Demand	0 %BOD/ThOD	OECD 301C - MITI (I)
1,2-Benzisothiazolin-3-One	2634-33-5	Experimental Aquatic Inherent Biodegrad.	34 days	Dissolv. Organic Carbon Deplet	17 %removal of DOC	OECD 302A - Modified SCAS Test
1,2-Benzisothiazolin-3-One	2634-33-5	Experimental Biodegradation	21 days	Dissolv. Organic Carbon Deplet	80 %removal of DOC	OECD 303A - Simulated Aerobic
1,2-Benzisothiazolin-3-One	2634-33-5	Experimental Biodegradation		Half-life (t 1/2)	4 hours (t 1/2)	
1,2-Benzisothiazolin-3-One	2634-33-5	Experimental Hydrolysis		Hydrolytic half-life	>1 years (t 1/2)	OECD 111 Hydrolysis func of pH

12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Aluminum Oxide Mineral	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
Mineral Oil	8042-47-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Glycerin	56-81-5	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	-1.75	similar to OECD 107
Polymer	34398-01-1	Modeled Bioconcentration		Bioaccumulation Factor	50	Catalogic™
1,2-Benzisothiazolin-3-One	2634-33-5	Experimental BCF - Fish	56 days	Bioaccumulation Factor	6.62	similar to OECD 305
1,2-Benzisothiazolin-3-One	2634-33-5	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	1.45	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

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

Local Regulations

Land Transport: In accordance with Director General of Land Transportation Decree No. SK.725/AJ.302/DRJD/2004 which refer to UN Standard.

Sea Transport: In accordance with Minister of Transportation Decree No. KM 2/2010 which refer to IMDG Code Standard.

International Regulations

UN No.: Not applicable

UN Proper Shipping Name: Not applicable

Transportation Class (IMO): Not applicable

Transportation Class (IATA): Not applicable

Packing Group: Not applicable

Marine Pollutant: Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Global inventory status

Contact 3M for more information. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Local Inventory Status

Addendum I Government Regulation No. 74/2001:

List of Hazardous Substances Approved for Use :

DIETHANOLAMINE is listed as a Hazardous Substance Approved for Use.

Ethanolamine is listed as a Hazardous Substance Approved for Use.

ETHYL ACRYLATE is listed as a Hazardous Substance Approved for Use.

ETHYLENE OXIDE is listed as a Hazardous Substance Approved for Use.

Glycerin is listed as a Hazardous Substance Approved for Use.

PROPYLENE OXIDE is listed as a Hazardous Substance Approved for Use.

Addendum II Government Regulation No. 74/2001:

Tab.1 List of Prohibited Substances for Use:

None of the substances are listed as a Prohibited Substance for Use.

Addendum II Government Regulation No. 74/2001:**Tab.2 List of Restricted Substances for Use:**

ETHYLENE OXIDE is listed as a Restricted Substance for Use.

Addendum I Ministry of Health Regulation No. 472/1996:**List and Classification of Hazardous Substances for Health:**

1,4-DIOXANE is listed and classified as a Hazardous Substance for Health.

ETHYLENE OXIDE is listed and classified as a Hazardous Substance for Health.

PROPYLENE OXIDE is listed and classified as a Hazardous Substance for Health.

Addendum I Act of Minister of Industry and Trade No. 254/MPP/KEP/2000**List of Hazardous Substances that are Regulated to Import Trade System:**

Triethanolamine is listed as a Hazardous Substance that is Regulated to Import Trade System

SECTION 16: Other information

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