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
3M™ Creme Cleanser Ready-To-Use

Product Identification Numbers
70-0715-9366-2

1.2. Recommended use and restrictions on use

Recommended use
Cleans away hard water scale, rust stains, soap scum and heavy soil from stainless steel surfaces, bathroom fixtures and ceramic surfaces. Extra thick formula contains very fine grade abrasive particles for extra scrubbing power, Hard Surface Cleaner

For Industrial or Professional use only

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
Skin Corrosion/Irritation: Category 1.
Serious Eye Damage/Irritation: Category 1.
Carcinogenicity: Category 1A.
Specific Target Organ Toxicity (repeated exposure): Category 1.
Chronic Aquatic Toxicity: Category 3.

2.2. Label elements
Signal word

Danger

Symbols
Corrosion |Health Hazard |

Pictograms



Hazard Statements:

H314	Causes severe skin burns and eye damage.
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure: respiratory system.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention:

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P280J	Wear protective gloves, protective clothing, respiratory protection, eye protection, and face protection.
P281	Use personal protective equipment as required.

Response:

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.

Disposal:

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

2.3. Other hazards
May cause chemical gastrointestinal burns.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt
Silicon Dioxide	14808-60-7	30 - 60
WATER	7732-18-5	30 - 60
Alkylbenzene Sulfonic Acid	68584-22-5	1 - 5
C9-11 Alcohol Ethoxylated	68439-46-3	1 - 5
METHYL SALICYLATE	119-36-8	0.1 - 0.3
Benzene, mono-C10-13-alkyl derivs.	129813-58-7	< 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:
Immediately flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

Eye Contact:
Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

If Swallowed:
Rinse mouth. Do not induce vomiting. Get immediate medical attention.

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

Skin burns (localized redness, swelling, itching, intense pain, blistering, and tissue destruction). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision). 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
Use a fire fighting agent suitable for the surrounding fire.

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

5.3. Special protective actions for fire-fighters
No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
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. For large spills, if necessary, get assistance from professional spill clean up team. For small spills, carefully cover the spill with soda ash (sodium carbonate) or sodium bicarbonate. Work from around the perimeter inward. Avoid splashing. Add enough water to ease mixing and stir. Continue stirring and adding water and neutralizing agent until the reaction stops. Let cool before collecting. Or use a commercially available 'Acid spill' clean-up kit. Follow the kit directions exactly, as specified. 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 metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene. Clean up residue with detergent and water. Cover, but do not seal for 48 hours. 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

Do not handle until all safety precautions have been read and understood. 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. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Keep away from reactive metals (eg. Aluminum, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard. Use personal protective equipment (gloves, respirators, etc.) as required.

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
Silicon Dioxide	14808-60-7	ACGIH	TWA(respirable fraction):0.025 mg/m3	A2: Suspected human carcin.
Silicon Dioxide	14808-60-7	Malaysia OELs	TWA(respirable fraction)(8 hours):0.1 mg/m3	

ACGIH : American Conference of Governmental Industrial Hygienists
CMRG : Chemical Manufacturer's Recommended Guidelines
Malaysia OELs : Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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:

Full Face Shield
Indirect Vented Goggles

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

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	Minty
Odor threshold	*No Data Available*
pH	1.15 - 2.15
Melting point/Freezing point	*No Data Available*
Boiling point/Initial boiling point/Boiling range	*No Data Available*
Flash Point	No flash point
Evaporation rate	*No Data Available*
Flammability	Not Applicable
Flammable Limits(LEL)	*No Data Available*
Flammable Limits(UEL)	*No Data Available*
Relative Vapor Density	*No Data Available*
Density	*No Data Available*
Relative Density	1.24562 [*Ref Std:*WATER=1]
Water solubility	Moderate
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	1 - 5 % weight
Percent volatile	*No Data Available*
VOC Less H2O & Exempt Solvents	< 170 g/l

Particle Characteristics	*Not Applicable*

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
Alkali and alkaline earth metals

10.6. Hazardous decomposition products

Substance	Condition
Carbon monoxide	Not Specified
Carbon dioxide	Not Specified

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.

May cause additional health effects (see below).

Skin Contact:
Corrosive (Skin Burns): Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

Allergic Skin Reaction (non-photo induced) in sensitive people: Signs/symptoms may include redness, swelling, blistering, and itching.

Eye Contact:
Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

Ingestion:
Gastrointestinal Corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain; nausea; vomiting; and diarrhea; blood in the feces and/or vomitus may also be seen.

May cause additional health effects (see below).

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:
Silicosis: Signs/symptoms may include breathlessness, weakness, chest pain, persistent cough, increased amounts of sputum, and heart disease.

Reproductive/Developmental Toxicity:
Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Carcinogenicity:
Contains a chemical or chemicals which can cause cancer.

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	Ingestion		No data available; calculated ATE >5,000 mg/kg
Silicon Dioxide	Dermal		LD50 estimated to be > 5,000 mg/kg
Silicon Dioxide	Ingestion		LD50 estimated to be > 5,000 mg/kg
C9-11 Alcohol Ethoxylated	Dermal	similar compounds	LD50 > 2,000 mg/kg
C9-11 Alcohol Ethoxylated	Inhalation-Dust/Mist (4 hours)	similar compounds	LC50 > 1.6 mg/l
C9-11 Alcohol Ethoxylated	Ingestion	similar compounds	LD50 3,488 mg/kg
Alkylbenzene Sulfonic Acid	Dermal	Rabbit	LD50 2,000 mg/kg
Alkylbenzene Sulfonic Acid	Ingestion	Rat	LD50 > 300, < 2000 mg/kg
METHYL SALICYLATE	Inhalation-Vapor (4 hours)	Rat	LC50 > 1.2 mg/l
METHYL SALICYLATE	Ingestion	Rat	LD50 890 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Silicon Dioxide	Professional judgement	No significant irritation
C9-11 Alcohol Ethoxylated	similar compounds	Minimal irritation
Alkylbenzene Sulfonic Acid	similar compounds	Minimal irritation
METHYL SALICYLATE	Rabbit	Minimal irritation

Serious Eye Damage/Irritation

Name	Species	Value
C9-11 Alcohol Ethoxylated	Professional judgement	Moderate irritant
Alkylbenzene Sulfonic Acid	similar compounds	Severe irritant
METHYL SALICYLATE	In vitro data	Corrosive

Sensitization:

Skin Sensitization

Name	Species	Value
C9-11 Alcohol Ethoxylated	Guinea pig	Not classified
Alkylbenzene Sulfonic Acid	Human	Some positive data exist, but the data are not sufficient for classification
METHYL SALICYLATE	Human and animal	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
Silicon Dioxide	In Vitro	Some positive data exist, but the data are not sufficient for classification
Silicon Dioxide	In vivo	Some positive data exist, but the data are not sufficient for classification
C9-11 Alcohol Ethoxylated	In Vitro	Not mutagenic
Alkylbenzene Sulfonic Acid	In Vitro	Not mutagenic
METHYL SALICYLATE	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Silicon Dioxide	Inhalation	Human and animal	Carcinogenic
METHYL SALICYLATE	Ingestion	Multiple animal species	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
C9-11 Alcohol Ethoxylated	Dermal	Not classified for female reproduction	Rat	NOAEL 250 mg/kg/day	2 generation
C9-11 Alcohol Ethoxylated	Dermal	Not classified for development	Rat	NOAEL 250 mg/kg/day	2 generation
C9-11 Alcohol Ethoxylated	Dermal	Not classified for male reproduction	Rat	NOAEL 100 mg/kg/day	2 generation
METHYL SALICYLATE	Ingestion	Not classified for female reproduction	Rat	NOAEL 250 mg/kg/day	3 generation
METHYL SALICYLATE	Ingestion	Not classified for male reproduction	Rat	NOAEL 250	3 generation

				mg/kg/day	
METHYL SALICYLATE	Ingestion	Toxic to development	similar compoun ds	NOAEL Not Available	

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
C9-11 Alcohol Ethoxylated	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
METHYL SALICYLATE	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
Silicon Dioxide	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
C9-11 Alcohol Ethoxylated	Dermal	kidney and/or bladder | heart | hematopoietic system | liver | nervous system | respiratory system	Not classified	Rat	NOAEL 125 mg/kg/day	13 weeks
METHYL SALICYLATE	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.7 mg/l	28 days
METHYL SALICYLATE	Ingestion	bone, teeth, nails, and/or hair	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 250 mg/kg/day	2 years
METHYL SALICYLATE	Ingestion	gastrointestinal tract | respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
METHYL SALICYLATE	Ingestion	liver	Not classified	Dog	NOAEL 350 mg/kg/day	2 years
METHYL SALICYLATE	Ingestion	heart | hematopoietic system | kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years

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

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
Silicon Dioxide	14808-60-7	Green algae	Estimated	72 hours	EC50	440 mg/l
Silicon Dioxide	14808-60-7	Water flea	Estimated	48 hours	EC50	7,600 mg/l
Silicon Dioxide	14808-60-7	Zebra Fish	Estimated	96 hours	LC50	5,000 mg/l
Silicon Dioxide	14808-60-7	Green algae	Estimated	72 hours	NOEC	60 mg/l
Alkylbenzene Sulfonic Acid	68584-22-5	Green algae	Analogous Compound	96 hours	EC50	36 mg/l
Alkylbenzene Sulfonic Acid	68584-22-5	Rainbow Trout	Experimental	96 hours	LC50	4.3 mg/l
Alkylbenzene Sulfonic Acid	68584-22-5	Water flea	Experimental	48 hours	EC50	2.9 mg/l
Alkylbenzene Sulfonic Acid	68584-22-5	Fathead Minnow	Analogous Compound	28 days	NOEC	0.9 mg/l
Alkylbenzene Sulfonic Acid	68584-22-5	Green algae	Analogous Compound	72 hours	NOEC	2.2 mg/l
Alkylbenzene Sulfonic Acid	68584-22-5	Water flea	Analogous Compound	21 days	NOEC	0.3 mg/l
Alkylbenzene Sulfonic Acid	68584-22-5	Activated sludge	Analogous Compound	3 hours	EC50	550 mg/l
Alkylbenzene Sulfonic Acid	68584-22-5	Redworm	Analogous Compound	14 days	LC50	>1,000 mg/kg (Dry Weight)
C9-11 Alcohol Ethoxylated	68439-46-3	Rainbow Trout	Analogous Compound	96 hours	LC50	5 mg/l
C9-11 Alcohol Ethoxylated	68439-46-3	Green algae	Experimental	72 hours	EbC50	1.4 mg/l
C9-11 Alcohol Ethoxylated	68439-46-3	Water flea	Experimental	48 hours	EC50	2.5 mg/l
C9-11 Alcohol Ethoxylated	68439-46-3	Green algae	Analogous Compound	72 hours	ErC10	1.05 mg/l
C9-11 Alcohol Ethoxylated	68439-46-3	Water flea	Analogous Compound	21 days	NOEC	0.107 mg/l
C9-11 Alcohol Ethoxylated	68439-46-3	Activated sludge	Analogous Compound	3 hours	EC50	140 mg/l
C9-11 Alcohol Ethoxylated	68439-46-3	Wheat	Analogous Compound	19 days	EC50	>100 mg/kg (Dry Weight)
METHYL SALICYLATE	119-36-8	Fathead Minnow	Analogous Compound	96 hours	LC50	19.8 mg/l
METHYL SALICYLATE	119-36-8	Water flea	Analogous Compound	48 hours	EC50	28 mg/l
METHYL SALICYLATE	119-36-8	Amphibian	Experimental	24 hours	LC50	502.55 mg/l
METHYL SALICYLATE	119-36-8	Green algae	Experimental	72 hours	EC50	27 mg/l
METHYL SALICYLATE	119-36-8	Green algae	Experimental	72 hours	NOEC	6.25 mg/l
METHYL SALICYLATE	119-36-8	Bacteria	Experimental	16 hours	EC50	380 mg/l
METHYL SALICYLATE	119-36-8	Cucumber	Experimental	14 days	NOEC	200 mg/kg (Dry Weight)
METHYL SALICYLATE	119-36-8	Redworm	Experimental	14 days	EC50	350 mg/kg (Dry Weight)
Benzene, mono-C10-13-alkyl derivs.	129813-58-7	Water flea	Analogous Compound	48 hours	EC50	0.009 mg/l
Benzene, mono-C10-13-alkyl derivs.	129813-58-7	Water flea	Analogous Compound	21 days	NOEC	0.0053 mg/l

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Silicon Dioxide	14808-60-7	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Alkylbenzene Sulfonic Acid	68584-22-5	Experimental Biodegradation	28 days	Carbon dioxide evolution	80 %CO2 evolution/THCO2 evolution	OECD 301B - Mod. Sturm or CO2
C9-11 Alcohol Ethoxylated	68439-46-3	Analogous Compound Biodegradation	28 days	Biological Oxygen Demand	72 %CO2 evolution/THCO2 evolution	ISO 14593 Inorg C Headspace
METHYL SALICYLATE	119-36-8	Experimental Biodegradation	28 days	Carbon dioxide evolution	98.4 %CO2 evolution/THCO2 evolution	similar to OECD 301B
METHYL SALICYLATE	119-36-8	Extrapolated Hydrolysis		Hydrolytic half-life (pH 7)	22 days (t 1/2)	
Benzene, mono-C10-13-alkyl derivs.	129813-58-7	Analogous Compound Biodegradation	28 days	Carbon dioxide evolution	59 %CO2 evolution/THCO2 evolution	OECD 301B - Mod. Sturm or CO2

12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Silicon Dioxide	14808-60-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Alkylbenzene Sulfonic Acid	68584-22-5	Analogous Compound BCF - Fish	28 days	Bioaccumulation Factor	220	
Alkylbenzene Sulfonic Acid	68584-22-5	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	2.0	OECD 107 log Kow shke flsk mtd
C9-11 Alcohol Ethoxylated	68439-46-3	Modeled Bioconcentration		Bioaccumulation Factor	31	Catalogic™
C9-11 Alcohol Ethoxylated	68439-46-3	Analogous Compound Bioconcentration		Log of Octanol/H2O part. coeff	2.72	OECD 123 log Kow slow stir
METHYL SALICYLATE	119-36-8	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	2.55	
Benzene, mono-C10-13-alkyl derivs.	129813-58-7	Analogous Compound BCF - Fish	56 days	Bioaccumulation Factor	443	

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

Marine Transport (IMDG)

UN Number:UN3265
Proper Shipping Name:CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Technical Name: None assigned.
Hazard Class/Division:8
Subsidiary Risk: None assigned.
Packing Group:III
Limited Quantity: Yes
Marine Pollutant: None assigned.
Marine Pollutant Technical Name: None assigned.
Other Dangerous Goods Descriptions:
None assigned.

Air Transport (IATA)

UN Number:UN3265
Proper Shipping Name:CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Technical Name: None assigned.
Hazard Class/Division:8
Subsidiary Risk: None assigned.
Packing Group:III
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 Japan Chemical Substance Control Law. 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. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

SECTION 16: Other information

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

themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into Malaysia, you are responsible for all applicable regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration/notification.

3M Malaysia SDSs are available at www.3M.com.my