

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

3MTM Car Wash Soap, 38079, 38378, 38377, 39000

Product Identification Numbers

60-4550-6425-7 60-4550-6426-5 60-4550-6427-3 60-4550-6656-7 60-4550-6657-5

1.2. Recommended use and restrictions on use

Recommended use

Automotive, Car Wash Soap

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 2. Serious Eye Damage/Irritation: Category 2. Chronic Aquatic Toxicity: Category 3.

2.2. Label elements

Signal word

Warning

Symbols

Exclamation mark |

Pictograms



Hazard Statements:

H315 Causes skin irritation. H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

General:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

Disposal:

P501 Dispose of contents/container in accordance with applicable

local/regional/national/international regulations.

2.3. Other hazards

None known

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt
Water	7732-18-5	60 - 100
Alcohol Ethoxysulfate (Sodium Salt)	68585-34-2	1 - 5
Benzenesulfonic acid, mono-C10-16-alkyl	68081-81-2	1 - 5
derivs., sodium salts		
Cocoamidopropylbetaine	61789-40-0	1 - 5
Sodium Mono-C10-16-Alkyl Sulfates	68585-47-7	1 - 5
Sulfonic Acids, C14-16-Alkane Hydroxy	68439-57-6	1 - 5
and C14-16 Alkene, Sodium Salts		
Lauryldimethylamine Oxide	1643-20-5	< 3
Sodium Chloride	7647-14-5	0.5 - 1.5

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:

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. 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

Material will not burn.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance
Carbon monoxide
Carbon dioxide

Condition

During Combustion
During Combustion

5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. 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 water. 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. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the

environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

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:

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

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	Orange-Red
Odor	Cherry
Odor threshold	No Data Available
pH	9 - 10
Melting point/Freezing point	No Data Available
Boiling point/Initial boiling point/Boiling range	100 °C
Flash Point	Flash point > 93 °C (200 °F)

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 g/ml
Relative Density	1 [Ref Std:WATER=1]
Water solubility	Complete
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	400 - 800 mPa-s
Volatile Organic Compounds	2 g/l [Test Method:calculated SCAQMD rule 443.1]
Volatile Organic Compounds	0.2 % weight [Test Method:calculated per CARB title 2]
Percent volatile	88.8 % weight
VOC Less H2O & Exempt Solvents	15 g/l [Test Method:calculated SCAQMD rule 443.1]
Molecular weight	No Data Available

Nanoparticles

This material does not contain nanoparticles.

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

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

Substance
None known.

Condition

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:

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

Eye Contact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired 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	Ingestion		No data available; calculated ATE >5,000 mg/kg
Sodium Mono-C10-16-Alkyl Sulfates	Dermal	Rat	LD50 > 2,000 mg/kg
Sodium Mono-C10-16-Alkyl Sulfates	Ingestion	Rat	LD50 977 mg/kg
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	Dermal	Rat	LD50 > 2,000 mg/kg
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	Ingestion	Rat	LD50 578 mg/kg
Alcohol Ethoxysulfate (Sodium Salt)	Dermal	Rat	LD50 > 2,000 mg/kg
Alcohol Ethoxysulfate (Sodium Salt)	Ingestion	Rat	LD50 2,870 mg/kg
Lauryldimethylamine Oxide	Ingestion	Mouse	LD50 2,700 mg/kg
Lauryldimethylamine Oxide	Dermal	Rabbit	LD50 3,536 mg/kg
Cocoamidopropylbetaine	Dermal	Rat	LD50 > 2,000 mg/kg
Cocoamidopropylbetaine	Ingestion	Rat	LD50 > 1,500 mg/kg
Sodium Chloride	Dermal	Rabbit	LD50 > 10,000 mg/kg
Sodium Chloride	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 10.5 mg/l
Sodium Chloride	Ingestion	Rat	LD50 3,550 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Skiii Cullusiuii/II I itatiuii		
Name	Species	Value
Overall product	In vitro	Irritant
	data	
Sodium Mono-C10-16-Alkyl Sulfates	Rabbit	Irritant
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	Rabbit	Mild irritant
Alcohol Ethoxysulfate (Sodium Salt)	Rabbit	Irritant
Cocoamidopropylbetaine	Rabbit	Mild irritant
Sodium Chloride	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Overall product	In vitro	Severe irritant
	data	
Sodium Mono-C10-16-Alkyl Sulfates	Rabbit	Corrosive
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	Rabbit	Corrosive
Alcohol Ethoxysulfate (Sodium Salt)	Rabbit	Corrosive
Cocoamidopropylbetaine	Rabbit	Corrosive
Sodium Chloride	Rabbit	Mild irritant

Sensitization:

Skin Sensitization

Name	Species	Value
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	Guinea	Not classified
	pig	
Alcohol Ethoxysulfate (Sodium Salt)	Guinea	Not classified
	pig	
Cocoamidopropylbetaine	Multiple	Not classified
	animal	
	species	
Lauryldimethylamine Oxide	Guinea	Not classified
	pig	

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
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	In Vitro	Not mutagenic
Alcohol Ethoxysulfate (Sodium Salt)	In Vitro	Not mutagenic
Alcohol Ethoxysulfate (Sodium Salt)	In vivo	Not mutagenic
Cocoamidopropylbetaine	In Vitro	Not mutagenic
Cocoamidopropylbetaine	In vivo	Not mutagenic
Sodium Chloride	In Vitro	Some positive data exist, but the data are not
		sufficient for classification
Sodium Chloride	In vivo	Some positive data exist, but the data are not
		sufficient for classification

Carcinogenicity

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Name	Route	Species	Value
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene,	Dermal	Rat	Not carcinogenic
Sodium Salts			
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene,	Ingestion	Rat	Not carcinogenic
Sodium Salts			_
Sodium Chloride	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	Ingestion	Not classified for female reproduction	Rat	NOAEL 871 mg/kg	2 generation
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	Ingestion	Not classified for male reproduction	Rat	NOAEL 891 mg/kg	2 generation
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	Ingestion	Not classified for development	Rabbit	NOAEL 600 mg/kg	during organogenesis
Alcohol Ethoxysulfate (Sodium Salt)	Ingestion	Not classified for female reproduction	Rat	NOAEL 300	2 generation

				mg/kg/day	
Alcohol Ethoxysulfate (Sodium Salt)	Ingestion	Not classified for male reproduction	Rat	NOAEL 300	2 generation
		_		mg/kg/day	
Alcohol Ethoxysulfate (Sodium Salt)	Ingestion	Not classified for development	Rat	NOAEL 300	2 generation
• • • • • • • • • • • • • • • • • • • •		•		mg/kg/day	

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Sodium Mono-C10-16- Alkyl Sulfates	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	Duration
Alcohol Ethoxysulfate (Sodium Salt)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Cocoamidopropylbetaine	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Sulfonic Acids, C14-16- Alkane Hydroxy and C14- 16 Alkene, Sodium Salts	Ingestion	liver	Not classified	Rat	NOAEL 500 mg/kg/day	6 months
Sulfonic Acids, C14-16- Alkane Hydroxy and C14- 16 Alkene, Sodium Salts	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 500 mg/kg	6 months
Alcohol Ethoxysulfate (Sodium Salt)	Dermal	skin heart endocrine system gastrointestinal tract hematopoietic system liver immune system nervous system eyes kidney and/or bladder respiratory system vascular system	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Alcohol Ethoxysulfate (Sodium Salt)	Ingestion	blood eyes	Not classified	Rat	NOAEL 225 mg/kg/day	90 days
Cocoamidopropylbetaine	Ingestion	heart endocrine system hematopoietic system liver nervous system eyes kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	92 days
Sodium Chloride	Ingestion	blood kidney and/or bladder vascular system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2,240 mg/kg/day	9 months
Sodium Chloride	Ingestion	nervous system eyes	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,700 mg/kg/day	90 days
Sodium Chloride	Ingestion	liver respiratory system	Not classified	Rat	NOAEL 33 mg/kg/day	90 days

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 2: Toxic 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	Туре	Exposure	Test Endpoint	Test Result
Alcohol	68585-34-2	Bacteria	Estimated	16 hours	EC10	>10,000 mg/l
Ethoxysulfate						
(Sodium Salt)						
Alcohol	68585-34-2	Green algae	Estimated	72 hours	EC50	27.7 mg/l
Ethoxysulfate						
(Sodium Salt)				1.2.4		
Alcohol	68585-34-2	Water flea	Estimated	48 hours	EC50	7.4 mg/l
Ethoxysulfate						
(Sodium Salt)	60505 24 2	7.1 5:1	D .: . 1	061	1.050	7.1 (1
Alcohol	68585-34-2	Zebra Fish	Estimated	96 hours	LC50	7.1 mg/l
Ethoxysulfate (Sodium Salt)						
Alcohol	68585-34-2	Cusan alasa	Estimated	72 hours	NOEC	0.05 /1
Ethoxysulfate	08383-34-2	Green algae	Estimated	/2 nours	NOEC	0.95 mg/l
(Sodium Salt)						
Alcohol	68585-34-2	Rainbow Trout	Estimated	28 days	NOEC	0.14 mg/l
Ethoxysulfate	06363-34-2	Kallibow Hout	Estillated	26 days	NOEC	0.14 mg/1
(Sodium Salt)						
Alcohol	68585-34-2	Water flea	Estimated	7 days	NOEC	0.06 mg/l
Ethoxysulfate	00202 2 1 2	, vater frea	Estimated	, augs	Trobe	0.00 mg/1
(Sodium Salt)						
Benzenesulfoni	68081-81-2	Algae other	Estimated	96 hours	EC50	0.9 mg/l
c acid, mono-						
C10-16-alkyl						
derivs., sodium						
salts						
Benzenesulfoni	68081-81-2	Water flea	Estimated	48 hours	EC50	1.62 mg/l
c acid, mono-						
C10-16-alkyl						
derivs., sodium						
salts			<u> </u>		1	
Benzenesulfoni	68081-81-2	Zebra Fish	Estimated	96 hours	LC50	0.6 mg/l
c acid, mono-						
C10-16-alkyl						
derivs., sodium						
salts						

(0001 01 2	A 1 .4	In	0.61	NOEC	0.2 /1
68081-81-2	Algae other	Estimated	96 hours	NOEC	0.3 mg/l
			20.1	21070	
68081-81-2		Estimated	30 days	NOEC	1 mg/l
	Minnow				
				210.7.0	
68081-81-2	Water flea	Estimated	21 days	NOEC	0.3 mg/l
(1700 40 0	D	D	20	NODE	2 000 //
61789-40-0	Bacteria	Experimental	30 minutes	NOEC	>3,000 mg/l
			0.61	7.070	1.0 (1
61789-40-0	Common Carp	Experimental	96 hours	LC50	1.9 mg/l
61789-40-0	Green algae	Experimental	96 hours	EC50	0.55 mg/l
61789-40-0	Water flea	Experimental	24 hours	EC50	1.1 mg/l
				ļ	
61789-40-0	Green algae	Experimental	72 hours	NOEC	0.09 mg/l
61789-40-0	Water flea	Experimental	21 days	NOEC	0.9 mg/l
68585-47-7		Data not			N/A
68439-57-6		Experimental	3 hours	EC50	230 mg/l
	sludge				
68439-57-6	Diatom	Experimental	72 hours	EC50	5.2 mg/l
68439-57-6	Water flea	Experimental	48 hours	EC50	3.48 mg/l
68439-57-6	Zebra Fish	Experimental	96 hours	LC50	2.6 mg/l
		i	•	1	ı l
	68439-57-6 68439-57-6	68081-81-2 Fathead Minnow 68081-81-2 Water flea 61789-40-0 Bacteria 61789-40-0 Green algae 61789-40-0 Water flea 61789-40-0 Water flea 61789-40-0 Water flea 61789-40-0 Water flea 68585-47-7 68439-57-6 Activated sludge	Fathead Minnow 68081-81-2 Water flea Estimated 61789-40-0 Bacteria Experimental 61789-40-0 Green algae Experimental 61789-40-0 Water flea Experimental 61789-40-0 Green algae Experimental 61789-40-0 Water flea Experimental 61789-40-0 Water flea Experimental 68585-47-7 Data not available or insufficient for classification 68439-57-6 Activated sludge 68439-57-6 Diatom Experimental Experimental	68081-81-2 Fathead Minnow Estimated 30 days 68081-81-2 Water flea Estimated 21 days 61789-40-0 Bacteria Experimental 30 minutes 61789-40-0 Green algae Experimental 96 hours 61789-40-0 Water flea Experimental 24 hours 61789-40-0 Green algae Experimental 72 hours 61789-40-0 Water flea Experimental 21 days 68585-47-7 Data not available or insufficient for classification 68439-57-6 Activated sludge Experimental 3 hours 68439-57-6 Diatom Experimental 72 hours 68439-57-6 Diatom Experimental 48 hours	Fathead Minnow Estimated 30 days NOEC 68081-81-2 Water flea Estimated 21 days NOEC 61789-40-0 Bacteria Experimental 30 minutes NOEC 61789-40-0 Green algae Experimental 96 hours EC50 61789-40-0 Water flea Experimental 24 hours EC50 61789-40-0 Green algae Experimental 72 hours NOEC 61789-40-0 Water flea Experimental 72 hours NOEC 61789-40-0 Water flea Experimental 72 hours NOEC 68585-47-7 Data not available or insufficient for classification 68439-57-6 Activated sludge Experimental 3 hours EC50 68439-57-6 Diatom Experimental 72 hours EC50 68439-57-6 Water flea Experimental 48 hours EC50

Sulfonic Acids, C14-16-Alkane	68439-57-6	Diatom	Experimental	72 hours	EC10	3.9 mg/l
Hydroxy and						
C14-16						
Alkene, Sodium Salts						
	68439-57-6	Water flea	F	21 1	NOEC	C 2 /1
Sulfonic Acids, C14-16-Alkane	08439-57-6	water flea	Experimental	21 days	NOEC	6.3 mg/l
Hydroxy and C14-16						
Alkene,						
Sodium Salts						
Lauryldimethyl	1642 20 5	Green algae	Experimental	72 hours	EC50	0.11 mg/l
amine Oxide	1043-20-3	Oreen argae	Experimental	72 Hours	EC30	0.11 mg/1
Lauryldimethyl	1643-20-5	Medaka	Experimental	96 hours	LC50	30 mg/l
amine Oxide						
Lauryldimethyl	1643-20-5	Water flea	Experimental	48 hours	EC50	2.2 mg/l
amine Oxide						
Lauryldimethyl	1643-20-5	Fathead	Experimental	302 days	NOEC	0.42 mg/l
amine Oxide		Minnow				
Lauryldimethyl amine Oxide	1643-20-5	Green algae	Experimental	72 hours	NOEC	0.0049 mg/l
Lauryldimethyl	1643-20-5	Water flea	Experimental	21 days	NOEC	0.36 mg/l
amine Oxide						
Sodium	7647-14-5	Activated	Experimental		NOEC	8,000 mg/l
Chloride		sludge				
Sodium	7647-14-5	Algae other	Experimental	96 hours	EC50	2,430 mg/l
Chloride						
Sodium	7647-14-5	Bluegill	Experimental	96 hours	LC50	5,840 mg/l
Chloride						
Sodium	7647-14-5	Water flea	Experimental	48 hours	LC50	874 mg/l
Chloride						
Sodium	7647-14-5	Fathead	Experimental	33 days	NOEC	252 mg/l
Chloride		Minnow				
Sodium	7647-14-5	Water flea	Experimental	21 days	NOEC	314 mg/l
Chloride						

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Alcohol	68585-34-2	Estimated	28 days	Dissolv.	100 %removal	Non-standard method
Ethoxysulfate		Biodegradation		Organic	of DOC	
(Sodium Salt)				Carbon Deplet		
Benzenesulfoni c acid, mono- C10-16-alkyl derivs., sodium salts	68081-81-2	Estimated Biodegradation	28 days	Dissolv. Organic Carbon Deplet	94 % weight	OECD 301A - DOC Die Away Test
Cocoamidopro pylbetaine	61789-40-0	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	100 %removal of DOC	OECD 301E - Modif. OECD Screen
Sodium Mono- C10-16-Alkyl Sulfates	68585-47-7	Experimental Biodegradation	30 days	Biological Oxygen Demand	>60 % BOD/ThBOD	OECD 301D - Closed Bottle Test

Sulfonic Acids,	68439-57-6	Experimental	28 days	Carbon dioxide	80 % weight	OECD 301B - Mod.
C14-16-Alkane		Biodegradation		evolution		Sturm or CO2
Hydroxy and						
C14-16						
Alkene,						
Sodium Salts						
Lauryldimethyl	1643-20-5	Experimental	28 days	Carbon dioxide	95.27 % weight	OECD 301B - Mod.
amine Oxide		Biodegradation		evolution		Sturm or CO2
Sodium	7647-14-5	Data not			N/A	
Chloride		availbl-				
		insufficient				

12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Alcohol Ethoxysulfate (Sodium Salt)	68585-34-2	Experimental BCF-Carp	72 hours	Bioaccumulatio n Factor	18	Non-standard method
Benzenesulfoni c acid, mono- C10-16-alkyl derivs., sodium salts	68081-81-2	Estimated BCF - Fathead Minnow	28 days	Bioaccumulatio n Factor	245	
Cocoamidopro pylbetaine	61789-40-0	Estimated Bioconcentrati on		Log of Octanol/H2O part. coeff	0.69	Non-standard method
Sodium Mono- C10-16-Alkyl Sulfates	68585-47-7	Experimental BCF-Carp		Bioaccumulatio n Factor	≤73	Non-standard method
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	68439-57-6	Estimated Bioconcentrati on		Log of Octanol/H2O part. coeff	-1.3	Non-standard method
Lauryldimethyl amine Oxide	1643-20-5	Estimated Bioconcentrati on		Log of Octanol/H2O part. coeff	1.85	Non-standard method
Sodium Chloride	7647-14-5	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

According to the Environmental Quality (Scheduled Wastes) Regulations 2005, scheduled waste has to be sent to a prescribed

premise for recycling, treatment or disposal. Please approach Kualiti Alam for proper schedule waste classification and disposal.

SECTION 14: Transport Information

Not hazardous for transportation.

Marine Transport (IMDG)

UN Number: None assigned.

Proper Shipping Name:None assigned. **Technical Name:**None assigned.

Hazard Class/Division: None assigned. Subsidiary Risk: None assigned.

Packing Group: None assigned.
Limited Quantity: None assigned.
Marine Pollutant: None assigned.

Marine Pollutant Technical Name: None assigned.

Other Dangerous Goods Descriptions:

None assigned.

Air Transport (IATA)

UN Number: None assigned.

Proper Shipping Name: None assigned.

Technical Name: None assigned.

Hazard Class/Division: None assigned.

Subsidiary Risk: None assigned.

Packing Group: None assigned.

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 Japan Chemical Substance Control Law. 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. 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 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 Malaysia SDSs are available at www.3M.com.my