Safety Data Sheet

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

SECTION 1: Identification

1.1. Product identifier
Scotchgard™ Rug & Carpet Cleaner (Cat. No. 4107)

Product Identification Numbers
70-0052-8382-8

1.2. Recommended use and restrictions on use

Recommended use
Fabric and carpet cleaner

For Consumer Use

1.3. Supplier's details
ADDRESS: 3M Philippines, Inc., 18th Floor, Bonifacio Stopover Corporate Center, 31st Street corner, 2nd Avenue, Bonifacio Global City, Taguig City, 1635 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
Non-flammable Aerosol: Category 3.
Specific Target Organ Toxicity (single exposure): Category 2.

2.2. Label elements
Signal word
Warning

Symbols

Health Hazard |

Pictograms

Hazard statements

H229	Pressurized container: may burst if heated.
H371	May cause damage to organs: cardiovascular system.

Precautionary statements

General:

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

Prevention:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.

Storage:

P405	Store locked up.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C).

Disposal:

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

2.3. Other hazards

None known

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
WATER	7732-18-5	80 - 95
STYRENE-MALEIC ANHYDRIDE COPOLYMER	26022-09-3	1 - 5
ISOBUTANE	75-28-5	1 - 5
SODIUM MONO-C10-16-ALKYL SULFATES	68585-47-7	1 - 1.5
SODIUM NITRATE	7632-00-0	< 0.2
LAURYLDIMETHYLAMINE OXIDE	1643-20-5	< 0.2
MORPHOLINE	110-91-8	< 0.2

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Remove person to fresh air. Get medical attention.

Skin Contact:
Wash with soap and water. If signs/symptoms develop, get medical attention.

Eye Contact:
Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

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

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

Target organ effects. See Section 11 for additional details.

4.3. Indication of any immediate medical attention and special treatment required
Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

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
Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Oxides of Sulfur	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
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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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
If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. 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. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Do not pierce or burn, even after use. 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. Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities
Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store away from heat.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
MORPHOLINE	110-91-8	ACGIH	TWA:20 ppm	A4: Not class. as human carcin,Danger of cutaneous absorption
MORPHOLINE	110-91-8	Philippines OELs	TWA(8 hours):70 mg/m3(20 ppm)	SKIN

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
Philippines OELs : Philippines. Threshold Limit Values for Airborne Contaminants
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

8.2. Exposure controls

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

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
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.

For prolonged or repeated contact, gloves made from the following material(s) are recommended (breakthrough times are >4 hours): Butyl Rubber, Polymer laminate

Any glove recommended for prolonged/repeated contact is also suitable for short-term/splash contact.

Respiratory protection

During heating: Use a positive pressure supplied-air respirator if there is a potential for over exposure from an uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate 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 supplied-air respirator

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
Specific Physical Form:	Aerosol
Color	Milky White
Odor	Light Floral
Odor threshold	*No Data Available*
pH	9.3
Melting point/Freezing point	*Not Applicable*
Boiling point/Initial boiling point/Boiling range	98 ºC - 100 ºC [*Details:*(Liquid Product)]
Flash Point	No flash point
Evaporation rate	*Not Applicable*
Flammability	Non-flammable Aerosol: Category 3.
Flammable Limits(LEL)	*No Data Available*
Flammable Limits(UEL)	*No Data Available*
Vapor Pressure	1,999.8 Pa - 2,266.5 Pa [@ 20 ºC] [*Test Method:*Tested per ASTM protocol] [*Details:*(Liquid Product)]
Relative Vapor Density	*Not Applicable*
Density	1 g/ml [*Details:*(Liquid Product)]
Relative Density	1 [*Ref Std:*WATER=1] [*Details:*(Liquid Product)]
Water solubility	Complete
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	*Not Applicable*
Decomposition temperature	*No Data Available*
Kinematic Viscosity	*No Data Available*
Volatile Organic Compounds	4.9 %
Percent volatile	Approximately 95 %
VOC Less H2O & Exempt Solvents	*No Data Available*

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
Heat

10.5. Incompatible materials
None known.

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.

May cause additional health effects (see below).

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

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.

May cause additional health effects (see below).

Additional Health Effects:

Single exposure may cause target organ effects:
Single exposure, above recommended guidelines, may cause: Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

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

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
ISOBUTANE	Inhalation-Gas (4 hours)	Rat	LC50 276,000 ppm
SODIUM MONO-C10-16-ALKYL SULFATES	Dermal	Rat	LD50 > 2,000 mg/kg
SODIUM MONO-C10-16-ALKYL SULFATES	Ingestion	Rat	LD50 1,800 mg/kg
SODIUM NITRATE	Ingestion	Rat	LD50 180 mg/kg
MORPHOLINE	Dermal	Rabbit	LD50 500 mg/kg
MORPHOLINE	Inhalation-Vapor	Rat	LC50 estimated to be 10 - 20 mg/l
MORPHOLINE	Ingestion	Rat	LD50 1,680 mg/kg
LAURYLDIMETHYLAMINE OXIDE	Dermal	similar compounds	LD50 > 2,000 mg/kg
LAURYLDIMETHYLAMINE OXIDE	Ingestion	similar compounds	LD50 1,064 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
ISOBUTANE	Professional judgement	No significant irritation
SODIUM MONO-C10-16-ALKYL SULFATES	Rabbit	Irritant
SODIUM NITRATE	Rabbit	No significant irritation
MORPHOLINE	Rabbit	Corrosive
LAURYLDIMETHYLAMINE OXIDE	similar compounds	Irritant

Serious Eye Damage/Irritation

Name	Species	Value
ISOBUTANE	Professional judgement	No significant irritation
SODIUM MONO-C10-16-ALKYL SULFATES	Rabbit	Corrosive
SODIUM NITRATE	Rabbit	Severe irritant
MORPHOLINE	Rabbit	Corrosive
LAURYLDIMETHYLAMINE OXIDE	similar	Corrosive

	compoun ds	

Sensitization:

Skin Sensitization

Name	Species	Value
SODIUM MONO-C10-16-ALKYL SULFATES	Guinea pig	Not classified
MORPHOLINE	Guinea pig	Not classified
LAURYLDIMETHYLAMINE OXIDE	Guinea pig	Not classified

Respiratory Sensitization

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

Germ Cell Mutagenicity

Name	Route	Value
ISOBUTANE	In Vitro	Not mutagenic
SODIUM MONO-C10-16-ALKYL SULFATES	In Vitro	Not mutagenic
SODIUM NITRATE	In Vitro	Some positive data exist, but the data are not sufficient for classification
SODIUM NITRATE	In vivo	Some positive data exist, but the data are not sufficient for classification
MORPHOLINE	In Vitro	Some positive data exist, but the data are not sufficient for classification
MORPHOLINE	In vivo	Some positive data exist, but the data are not sufficient for classification
LAURYLDIMETHYLAMINE OXIDE	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
SODIUM NITRATE	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
MORPHOLINE	Ingestion	Multiple animal species	Not carcinogenic
MORPHOLINE	Inhalation	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
SODIUM MONO-C10-16-ALKYL SULFATES	Ingestion	Not classified for development	Rat	NOAEL 250 mg/kg/day	during organogenesis
SODIUM NITRATE	Ingestion	Not classified for female reproduction	Mouse	NOAEL 425 mg/kg/day	2 generation
SODIUM NITRATE	Ingestion	Not classified for male reproduction	Mouse	NOAEL 425 mg/kg/day	2 generation
SODIUM NITRATE	Ingestion	Not classified for development	Rat	NOAEL 50 mg/kg/day	gestation into lactation
MORPHOLINE	Ingestion	Not classified for development		NA	
MORPHOLINE	Ingestion	Toxic to male reproduction	similar compoun ds	NOAEL 60 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
ISOBUTANE	Inhalation	cardiac sensitization	Causes damage to organs	Multiple animal species	NOAEL Not available	
ISOBUTANE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
ISOBUTANE	Inhalation	respiratory irritation	Not classified	Mouse	NOAEL Not available	
SODIUM MONO-C10-16-ALKYL SULFATES	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
SODIUM NITRATE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
SODIUM NITRATE	Ingestion	methemoglobinemia	Causes damage to organs	Human	NOAEL Not available	
MORPHOLINE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
LAURYLDIMETHYLAMINE OXIDE	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
ISOBUTANE	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 4,500 ppm	13 weeks
SODIUM NITRATE	Ingestion	skin | gastrointestinal tract | hematopoietic system | eyes | kidney and/or bladder | heart | endocrine system | bone, teeth, nails, and/or hair | liver | immune system | muscles | nervous system | respiratory system	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
MORPHOLINE	Dermal	liver | kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Guinea pig	LOAEL 900 mg/kg/day	13 days
MORPHOLINE	Dermal	hematopoietic system	Not classified	Guinea pig	NOAEL 900 mg/kg/day	13 days
MORPHOLINE	Inhalation	eyes	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
MORPHOLINE	Inhalation	pulmonary fibrosis	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 0.09 mg/l	13 weeks
MORPHOLINE	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 64 mg/l	5 days
MORPHOLINE	Inhalation	liver	Not classified	Rat	LOAEL 64 mg/l	5 days
MORPHOLINE	Inhalation	heart | endocrine system	Not classified	Rat	NOAEL 0.9 mg/l	13 weeks
MORPHOLINE	Inhalation	gastrointestinal tract | nervous system	Not classified	Rat	NOAEL 0.53 mg/l	104 weeks
MORPHOLINE	Ingestion	kidney and/or bladder	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 160 mg/kg/day	30 days

MORPHOLINE	Ingestion	liver | respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 160 mg/kg/day	30 days
MORPHOLINE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 800 mg/kg/day	30 days
MORPHOLINE	Ingestion	endocrine system	Not classified	Rat	NOAEL 323 mg/kg/day	4 weeks
LAURYLDIMETHYLAMINE OXIDE	Ingestion	eyes	Some positive data exist, but the data are not sufficient for classification	similar compounds	NOAEL 88 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 3: Harmful to aquatic life.

Chronic aquatic hazard:
Not chronically toxic to aquatic life by GHS criteria.

No product test data available

Material	Cas #	Organism	Type	Exposure	Test Endpoint	Test Result
ISOBUTANE	75-28-5	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
STYRENE-MALEIC ANHYDRIDE COPOLYMER	26022-09-3	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
SODIUM MONO-C10-16-ALKYL SULFATES	68585-47-7	Green algae	Experimental	72 hours	EC50	>20 mg/l
SODIUM MONO-C10-16-ALKYL SULFATES	68585-47-7	Rainbow Trout	Experimental	96 hours	LC50	3.6 mg/l
SODIUM MONO-C10-16-ALKYL SULFATES	68585-47-7	Water flea	Experimental	48 hours	EC50	4.7 mg/l
SODIUM MONO-C10-16-ALKYL SULFATES	68585-47-7	Fathead Minnow	Estimated	42 days	NOEC	1.4 mg/l
SODIUM MONO-C10-16-ALKYL SULFATES	68585-47-7	Water flea	Estimated	7 days	EC50	0.88 mg/l
SODIUM MONO-C10-16-ALKYL SULFATES	68585-47-7	Green algae	Experimental	72 hours	EC10	5.4 mg/l
LAURYLDIMETH	1643-20-5	Green algae	Experimental	72 hours	ErC50	0.11 mg/l

YLAMINE OXIDE						
LAURYLDIMETHYLAMINE OXIDE	1643-20-5	Medaka	Experimental	96 hours	LC50	30 mg/l
LAURYLDIMETHYLAMINE OXIDE	1643-20-5	Water flea	Experimental	48 hours	EC50	2.2 mg/l
LAURYLDIMETHYLAMINE OXIDE	1643-20-5	Fathead Minnow	Experimental	302 days	NOEC	0.42 mg/l
LAURYLDIMETHYLAMINE OXIDE	1643-20-5	Green algae	Experimental	72 hours	NOEC	0.0049 mg/l
LAURYLDIMETHYLAMINE OXIDE	1643-20-5	Water flea	Experimental	21 days	NOEC	0.36 mg/l
MORPHOLINE	110-91-8	Activated sludge	Experimental	30 minutes	EC20	>1,000 mg/l
MORPHOLINE	110-91-8	Fish	Experimental	96 hours	LC50	100 mg/l
MORPHOLINE	110-91-8	Green algae	Experimental	96 hours	ErC50	28 mg/l
MORPHOLINE	110-91-8	Rainbow Trout	Experimental	96 hours	LC50	180 mg/l
MORPHOLINE	110-91-8	Water flea	Experimental	48 hours	EC50	45 mg/l
MORPHOLINE	110-91-8	Green algae	Experimental	96 hours	NOEC	10 mg/l
MORPHOLINE	110-91-8	Water flea	Experimental	21 days	NOEC	5 mg/l
SODIUM NITRATE	7632-00-0	Green algae	Experimental	72 hours	EC50	>100 mg/l
SODIUM NITRATE	7632-00-0	Invertebrate	Experimental	48 hours	LC50	37 mg/l
SODIUM NITRATE	7632-00-0	Rainbow Trout	Experimental	96 hours	LC50	0.9 mg/l
SODIUM NITRATE	7632-00-0	Fathead Minnow	Estimated	32 days	NOEC	3.1 mg/l

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
ISOBUTANE	75-28-5	Experimental Photolysis		Photolytic half-life (in air)	13.4 days (t 1/2)	
STYRENE-MALEIC ANHYDRIDE COPOLYMER	26022-09-3	Data not availbl-insufficient	N/A	N/A	N/A	N/A
SODIUM MONO-C10-16-ALKYL SULFATES	68585-47-7	Experimental Biodegradation	28 days	Percent degraded	96 %degraded	OECD 301D - Closed Bottle Test
LAURYLDIMETHYLAMINE OXIDE	1643-20-5	Experimental Biodegradation	28 days	Carbon dioxide evolution	95.27 %CO2 evolution/THCO2 evolution	OECD 301B - Mod. Sturm or CO2
MORPHOLINE	110-91-8	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	93 %removal of DOC	OECD 301E - Modif. OECD Screen
MORPHOLINE	110-91-8	Experimental Biodegradation	31 days	Dissolv. Organic Carbon Deplet	98 %removal of DOC	OECD 302B Zahn-Wellens/EVPA
SODIUM NITRATE	7632-00-0	Data not availbl-insufficient	N/A	N/A	N/A	N/A

12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
ISOBUTANE	75-28-5	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	2.76	
STYRENE-MALEIC ANHYDRIDE COPOLYMER	26022-09-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
SODIUM MONO-C10-16-ALKYL	68585-47-7	Experimental Bioconcentration		Log of Octanol/H2O part.	0.78	

SULFATES				coeff		
LAURYLDIMETHYLAMINE OXIDE	1643-20-5	Estimated Bioconcentration		Log of Octanol/H2O part. coeff	1.85	
MORPHOLINE	110-91-8	Experimental BCF - Fish	42 days	Bioaccumulation Factor	<2.8	OECD305-Bioconcentration
MORPHOLINE	110-91-8	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	-2.55	OECD 107 log Kow shke flsk mtd
SODIUM NITRATE	7632-00-0	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	-3.7	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

The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

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. Facility must be capable of handling aerosol cans. 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

Marine Transport (IMDG)

UN Number:UN1950
Proper Shipping Name:AEROSOLS, NON-FLAMMABLE
Technical Name: None assigned.
Hazard Class/Division:2.2
Subsidiary Risk: None assigned.
Packing Group: None assigned.
Limited Quantity: Yes
Marine Pollutant: None assigned.
Marine Pollutant Technical Name: None assigned.
Other Dangerous Goods Descriptions:
None assigned.

Air Transport (IATA)

UN Number:UN1950
Proper Shipping Name:AEROSOLS, NON-FLAMMABLE
Technical Name: None assigned.
Hazard Class/Division:2.2
Subsidiary Risk: None assigned.
Packing Group: None assigned.

Limited Quantity: None assigned.
Marine Pollutant: None assigned.
Marine Pollutant Technical Name: None assigned.
Other Dangerous Goods Descriptions:
None assigned.

Transportation classifications are provided as a customer service. As for shipping, YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling or marking requirements. The above information is only for reference. If you are shipping by air or ocean, YOU are advised to check & meet applicable regulatory requirements.

SECTION 15: Regulatory information

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

Global inventory status
Contact 3M for more information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

SECTION 16: Other information

Revision information:
No revision 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 Philippines SDSs are available at www.3m.com/ph