Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Regulations.

SECTION 1: Identification

1.1. Product identifier
Boat Wash (Marine/RV) M43 [M4364]

Product Identification Numbers
LB-1100-1368-3 14-1000-1232-8 14-1000-1233-6

1.2. Recommended use and restrictions on use

Intended Use
Marine

Specific Use
Boat hull and deck cleaner

Restrictions on use
Not applicable

1.3. Supplier's details

Company:	Meguiar's Canada Inc.
Division:	Meguiar's
Address:	1840 Oxford Street East, Post Office Box 5790, London, Ontario N6A 0A9
Telephone:	(800) 364-3577
Website:	

1.4. Emergency telephone number
Medical Emergency Telephone:1-800-3M HELPS / 1800 364 3577

SECTION 2: Hazard identification

The following product identification number(s) are sold in the consumer market place:
14-1000-1233-6

2.1. Classification of the substance or mixture
Not classified according to the Canadian Hazardous Products Regulation.

2.2. Label elements
Signal word
Not applicable.

Symbols
Not applicable

Pictograms
Not applicable

2.3. Other hazards
None known.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt	Common Name
Water	7732-18-5	80 - 100	Water
Sodium Chloride	7647-14-5	1 - 5	SODIUM CHLORIDE
Alcohol Ethoxysulfate (Sodium Salt)	68585-34-2	< 3	Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C10-16-alkyl ethers, sodium saltsalcohol) ethoxylate sulfuric acid sodium salt and SDA Reporting Number: 15-067-04. Consult SDA Substance Identification Procedure.
Sodium mono-C10-16-alkyl sulfates	68585-47-7	< 2	Sulfuric acid, mono-C10-16-alkyl esters, sodium salts

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

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

4.2. Most important symptoms and effects, both acute and delayed
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. Unsuitable extinguishing media
None Determined

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

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion

5.4. Special protection actions for fire-fighters
Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

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 vapours, 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 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/vapours/spray. 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/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection
None required.

Skin/hand protection
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Polymer laminate

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 vapours 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
Colour	Purple
Odour	Weak Clean
Odour threshold	*No Data Available*
pH	6.5 - 8
Melting point/Freezing point	*No Data Available*
Boiling point	100 ºC
Flash Point	Flash point > 93 °C (200 °F)
Evaporation rate	*No Data Available*
Flammability	Not Applicable
Flammable Limits(LEL)	*No Data Available*
Flammable Limits(UEL)	*No Data Available*
Vapour Pressure	*No Data Available*
Relative Vapour Density	*No Data Available*
Density	1 g/ml

Relative density	1.005 - 1.025 [*Ref Std:*WATER=1]
Water solubility	Soluble
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	1,500 mm2/sec
Volatile Organic Compounds	>=0 % weight [*Test Method:*calculated per CARB title 2]
Volatile Organic Compounds	0.3 g/l [*Test Method:*calculated SCAQMD rule 443.1]
Percent volatile	93 % weight [*Test Method:*Estimated]
VOC Less H2O & Exempt Solvents	1.9 g/l [*Test Method:*calculated per CARB title 2]
Molecular weight	*No Data Available*

Particle Characteristics	*Not Applicable*

SECTION 10: Stability and reactivity

10.1. Reactivity
This material is considered to be non reactive under normal use conditions.

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

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

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

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Alcohol Ethoxysulfate (Sodium Salt)	Dermal	Rat	LD50 > 2,000 mg/kg
Alcohol Ethoxysulfate (Sodium Salt)	Ingestion	Rat	LD50 2,870 mg/kg
Sodium mono-C10-16-alkyl sulfates	Ingestion	Rat	LD50 1,830 mg/kg
Sodium mono-C10-16-alkyl sulfates	Dermal	similar compounds	LD50 > 2,000 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

Name	Species	Value
Alcohol Ethoxysulfate (Sodium Salt)	Rabbit	Irritant
Sodium mono-C10-16-alkyl sulfates	similar compounds	Irritant
Sodium Chloride	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Alcohol Ethoxysulfate (Sodium Salt)	Rabbit	Corrosive
Sodium mono-C10-16-alkyl sulfates	similar compounds	Corrosive
Sodium Chloride	Rabbit	Mild irritant

Skin Sensitization

Name	Species	Value
Alcohol Ethoxysulfate (Sodium Salt)	Guinea pig	Not classified
Sodium mono-C10-16-alkyl sulfates	similar compounds	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
Alcohol Ethoxysulfate (Sodium Salt)	In Vitro	Not mutagenic
Alcohol Ethoxysulfate (Sodium Salt)	In vivo	Not mutagenic
Sodium mono-C10-16-alkyl sulfates	In Vitro	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

Name	Route	Species	Value
Sodium Chloride	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Alcohol Ethoxysulfate (Sodium Salt)	Ingestion	Not classified for female reproduction	Rat	NOAEL 300 mg/kg/day	2 generation
Alcohol Ethoxysulfate (Sodium Salt)	Ingestion	Not classified for male reproduction	Rat	NOAEL 300 mg/kg/day	2 generation
Alcohol Ethoxysulfate (Sodium Salt)	Ingestion	Not classified for development	Rat	NOAEL 300 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
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	
Sodium mono-C10-16-alkyl sulfates	Inhalation	respiratory irritation	May cause respiratory irritation	similar compounds	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Alcohol Ethoxysulfate (Sodium Salt)	Dermal	skin	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Alcohol Ethoxysulfate (Sodium Salt)	Dermal	heart	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Alcohol Ethoxysulfate (Sodium Salt)	Dermal	endocrine system	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Alcohol Ethoxysulfate (Sodium Salt)	Dermal	gastrointestinal tract	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Alcohol Ethoxysulfate (Sodium Salt)	Dermal	hematopoietic system	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Alcohol Ethoxysulfate (Sodium Salt)	Dermal	liver	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Alcohol Ethoxysulfate (Sodium Salt)	Dermal	immune system	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Alcohol Ethoxysulfate (Sodium Salt)	Dermal	nervous system	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Alcohol Ethoxysulfate (Sodium Salt)	Dermal	eyes	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Alcohol Ethoxysulfate (Sodium Salt)	Dermal	kidney and/or bladder	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Alcohol Ethoxysulfate (Sodium Salt)	Dermal	respiratory system	Not classified	Mouse	NOAEL 6.91 mg/day	90 days

Alcohol Ethoxysulfate (Sodium Salt)	Dermal	vascular system	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Alcohol Ethoxysulfate (Sodium Salt)	Ingestion	blood	Not classified	Rat	NOAEL 225 mg/kg/day	90 days
Alcohol Ethoxysulfate (Sodium Salt)	Ingestion	eyes	Not classified	Rat	NOAEL 225 mg/kg/day	90 days
Sodium Chloride	Ingestion	blood	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2,240 mg/kg/day	9 months
Sodium Chloride	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2,240 mg/kg/day	9 months
Sodium Chloride	Ingestion	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	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,700 mg/kg/day	90 days
Sodium Chloride	Ingestion	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	Not classified	Rat	NOAEL 33 mg/kg/day	90 days
Sodium Chloride	Ingestion	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

No data 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. 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

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

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

Global inventory status

Contact manufacturer 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

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.
Health: 1 **Flammability:** 0 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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Meguiar's, Inc. Canada SDSs are available at