

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 05/28/2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product form : Mixture

: 551 DURAGLOSS MARINE/RV ALUMINUM CLEANER Product name

Product code : Part#551 22oz, 552 Gal

Relevant identified uses of the substance or mixture and uses advised against

Details of the supplier of the safety data sheet

Brothers Research Corporation 2245 Airpark Drive Burlington, NC 27216 T 336-229-6480

Emergency telephone number

Emergency number : 800-424-9300 Chemtrec

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification (GHS-US)

H314 Skin Corr. 1A

Full text of H-phrases: see section 16

Label elements 2.2.

GHS-US labeling

Hazard pictograms (GHS-US)



GHS05

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS-US) P260 - Do not breathe vapors

P264 - Wash hands, forearms and face thoroughly after handling P280 - Wear eye protection, protective clothing, face protection P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

lenses, if present and easy to do. Continue rinsing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

P310 - Immediately call a POISON CENTER, a doctor

P321 - Specific treatment (see a POISON CENTER on this label)

P363 - Wash contaminated clothing before reuse

P405 - Store locked up

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous

waste

Other hazards

No additional information available

Unknown acute toxicity (GHS-US)

Not applicable

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
phosphoric acid, conc>=25%, aqueous solutions	(CAS No) 7664-38-2	6 - 10	Skin Corr. 1B, H314
2-(2-butoxyethoxy)ethanol	(CAS No) 112-34-5	1 - 2	Eye Irrit. 2A, H319
ammonium hydrogen difluoride, 0.1%<=conc<1%, aqueous solutions	(CAS No) 1341-49-7	1 - 2	Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

: Remove the victim into fresh air. If not breathing give artificial respiration. Get immediate medical advice/attention. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

First-aid measures after skin contact

: Take off contaminated clothing. Wash with plenty of soap and water. Rinse skin with water/shower. Get medical advice/attention. Remove/Take off immediately all contaminated clothing. Immediately call a poison center or doctor/physician.

First-aid measures after eye contact

: Move victim away from exposure and into fresh air. Rinse immediately with plenty of water for 15 minutes. Get medical advice/attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

First-aid measures after ingestion

Do not induce vomiting. Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

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

Symptoms/injuries

: Causes severe skin burns and eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

: Carbon dioxide. Dry chemical powder. Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media

: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Reactivity

: Corrosive vapors.

5.3. Advice for firefighters

Firefighting instructions

: Water can be used to keep exposed containers cool, to protect;. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting

: Complete protective clothing. Self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Absorb spill on vermiculite floor absorbent or other absorbent material.

6.1.1. For non-emergency personnel

Protective equipment

: Protective clothing. Protective goggles.

Emergency procedures

: Stop spill at source, prevent from spreading. If runoff ocurrs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, material to containers for disposal. Close container tightly and dispose of properly. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment

: Protective gloves. Safety glasses. Self-contained breathing apparatus. Use personal protective equipment as required. Equip cleanup crew with proper protection.

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Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Containers may be hazardous when emptied. Since emptied containers retain product residues, all hazard precautions given in the data sheet should be observed. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact during pregnancy/while nursing.

Hygiene measures : Wash ... thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Comply with applicable regulations.

Storage conditions

Store in a well-ventilated place. Keep away from heat, sparks, and flames. Emptied containers may retain product residues. Precautions apply to emptied containers. Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products

Strong bases. Strong acids.

Incompatible materials

: Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

551 DURAGLOSS MARINE/RV ALUMINUM CLEANER		
ACGIH	Not applicable	
OSHA	OSHA Not applicable	
DNEL	DNEL	≈

2-(2-butoxyethoxy)ethanol (112-34-5)		
ACGIH	ACGIH TWA (ppm)	10 ppm
ACGIH	ACGIH STEL (ppm)	10 ppm
OSHA	Not applicable	

phosphoric acid, conc>=25%, aqueous solutions (7664-38-2)	
ACGIH	Not applicable
OSHA	Not applicable

ammonium hydrogen difluoride, 0.1%<=conc<1%, aqueous solutions (1341-49-7)		
ACGIH	ACGIH TWA (mg/m³)	2.5 mg/m³
OSHA	Not applicable	

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or face shield. Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Clear Liquid.
Color : Clear Liquid
Odor : Butyl

Odor threshold : No data available

pH : 1-2

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : No Data

Freezing point : No data available

Boiling point : $212 \,^{\circ}\text{F}$ Flash point : $> 200 \,^{\circ}\text{F}$

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : 140 @ 130.0 F
Relative vapor density at 20 °C : No data available
Relative density : 1 H20=>1
Solubility : Soluble in water.

Water: Solubility in water of component(s) of the mixture :

•: •:

Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive vapors.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates: Corrosive vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

2-(2-butoxyethoxy)ethanol (112-34-5)	
LD50 dermal rabbit	2764 mg/kg body weight (Rabbit; Experimental value; Equivalent or similar to OECD 402)

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2-(2-butoxyethoxy)ethanol (112-34-5)	
ATE US (dermal)	2764.000 mg/kg body weight

ammonium hydrogen difluoride, 0.1%<=conc<1%, aqueous solutions (1341-49-7)

ATE US (oral) 100.000 mg/kg body weight

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 1 - 2

Serious eye damage/irritation : Not classified

pH: 1 - 2

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

2-(2-butoxyethoxy)ethanol (112-34-5)	
LC50 fish 1	1300 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 1	4950 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	> 100 mg/l (96 h; Desmodesmus subspicatus)

ammonium hydrogen difluoride, 0.1%<=conc<1%, aqueous solutions (1341-49-7) LC50 fish 1 > 2.3 mg/l (Pisces)

12.2. Persistence and degradability

2-(2-butoxyethoxy)ethanol (112-34-5)

551 DURAGLOSS MARINE/RV ALUMINUM CLEANER	
Persistence and degradability	Not established.

Persistence and degradability Readily biodegradable in water. Low potential for adsorption in soil. Photooxidation in the air.

phosphoric acid, conc>=25%, aqueous solutions (7664-38-2)	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the components available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

ammonium hydrogen difluoride, 0.1%<=conc<1%, aqueous solutions (1341-49-7) Persistence and degradability Biodegradability in soil: no data available.

12.3. Bioaccumulative potential

551 DURAGLOSS MARINE/RV ALUMINUM CLEANER	
Bioaccumulative potential	Not established.
2-(2-butoxyethoxy)ethanol (112-34-5)	
Log Pow	1 (Test data; Equivalent or similar to OECD 107; 20 °C)

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2-(2-butoxyethoxy)ethanol (112-34-5)		
	Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

Low potential for bioaccumulation (Log Kow < 4)

phosphoric acid, conc>=25%, aqueous solutions (7664-38-2) Bioaccumulative potential Not bioaccumulative.

ammonium hydrogen difluoride, 0.1%<=conc<1%, aqueous solutions (1341-49-7)

Bioaccumulative potential No bioaccumulation data available

12.4. Mobility in soil

2-(2-butoxyethoxy)ethanol (112-34-5)

0.0069 N/m (20 °C) Surface tension

12.5. Other adverse effects

Effect on ozone layer

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

Waste treatment methods

Waste disposal recommendations Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to ...

Ecology - waste materials Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

Not regulated for transport

Additional information

Other information : No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

551 DURAGLOSS MARINE/RV ALUMINUM CLEANER

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

2-(2-butoxyethoxy)ethanol (112-34-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

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Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations

15.3. US State regulations

SECTION 16: Other information

Revision date : 05/28/2015 Other information : None.

Full text of H-phrases:

At 0111 philadoc.	
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Corr. 1B	Skin corrosion/irritation Category 1B
H301	Toxic if swallowed
H314	Causes severe skin burns and eye damage
H319	Causes serious eye irritation

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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