

Safety Data Sheet

ToughGuard - WASH Step 1

SECTION 1. IDENTIFICATION

Product Identifier	TG-WASH Step 1
Other Identification	Step 1 TG-WASH
Product Family	Aircraft, Marine, Vehicle Washing
Recommended Use	Cleaner.
Restrictions on Use	None known.
Manufacturer	Griffin Bros. Inc., 3033 Industrial Way NE, Salem, OR, 97303, Mfd exclusively for HR ToughGuard
Emergency Phone No.	800-424-9300, Available 24 hours. 800-456-4743 CHEMTREC
SDS No.	0144

SECTION 2. HAZARD IDENTIFICATION

Classified according to the US Hazard Communication Standard (HCS 2012).

Classification

Not classified under any hazard class.

Label Elements

Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Water and proprietary non-hazardous ingredients	7732-18-5	91 to 97		
Alcohols, C9-11, ethoxylated, liquids	68439-46-3	2 to 5		
Silicic acid (H ₂ SiO ₃), disodium salt, pentahydrate	10213-79-3	1 to 3		
BENZYLDIMETHYLSTEARYLAMMONIUM CHLORIDE	122-19-0	<1		

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

Not known to cause harm.

Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open.

Product Identifier: TG-WASH Step 1 - Ver. 1
Date of Preparation: April 27, 2017
Date of Last Revision: August 16, 2017

SDS No.: 0144

Page 01 of 05

If eye irritation persists, get medical advice or attention.

Ingestion

Get medical advice or attention if you feel unwell or are concerned.

First-aid Comments

Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

None known.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

Does not burn.

Special Protective Equipment and Precautions for Fire-fighters

No special precautions are necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

No special precautions are necessary.

Environmental Precautions

It is good practice to prevent releases into the environment.

Methods and Materials for Containment and Cleaning Up

No special clean-up methods are necessary.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Conditions for Safe Storage

No special requirements for storage area.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls

The hazard potential of this product is relatively low. General ventilation is usually adequate.

Individual Protection Measures

Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

Skin Protection

Avoid contact with skin and eyes.

Respiratory Protection

Not normally required if product is used as directed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Product Identifier: TG-WASH Step 1 - Ver. 1

SDS No.: 0144

Date of Preparation: April 27, 2017

Date of Last Revision: August 16, 2017

Page 02 of 05

Basic Physical and Chemical Properties

Appearance	Clear liquid. Particle Size: Not applicable
Odour	Sweet
Odour Threshold	Not available
pH	Not available
Melting Point/Freezing Point	Not applicable (melting); Not available (freezing)
Initial Boiling Point/Range	> 212 °F
Flash Point	Not applicable
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	~ 1 mm Hg
Vapour Density (air = 1)	Not available
Solubility	Very soluble in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)
Other Information	
Physical State	Liquid
Molecular Formula	Not available
Molecular Weight	Not available
Bulk Density	Not available
Surface Tension	Not available
Critical Temperature	Not available
Electrical Conductivity	Not available
Vapour Pressure at 50 deg C	Not available
Saturated Vapour Concentration	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

None known.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None known.

Conditions to Avoid

None known.

Incompatible Materials

None known.

Hazardous Decomposition Products

None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

Skin Corrosion/Irritation

Human experience shows very mild irritation.

Corrosive to skin.

Serious Eye Damage/Irritation

Human experience shows very mild irritation.

Corrosive to eyes.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

No information was located.

Dust is severe irritant to respiratory tract. All symptoms of acute toxicity are due to high alkalinity.

Skin Absorption

No information was located.

Will cause chemical burns.

Ingestion

No information was located.

Will cause chemical burns. All symptoms of acute toxicity are due to high alkalinity.

Aspiration Hazard

No information was located.

Alcohols, C9-11, ethoxylated, liquids:

Silicic acid (H₂SiO₃), disodium salt, pentahydrate:

No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Conclusions cannot be drawn from the limited studies available.

No information was located.

Respiratory and/or Skin Sensitization

Not known to be a respiratory sensitizer.

Not known to be a skin sensitizer.

Carcinogenicity

Not known to cause cancer.

Not known to cause cancer.

Reproductive Toxicity

Development of Offspring

Not known to harm the unborn child.

Not known to harm the unborn child.

Sexual Function and Fertility

Not known to cause effects on sexual function or fertility.

Not known to cause effects on sexual function or fertility.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

Not known to be a mutagen.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

Persistence and Degradability

No ingredient of this product or its degradation products is known to be highly persistent.

Bioaccumulative Potential

This product and its degradation products are not known to bioaccumulate.

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

This product is a non-hazardous waste.

SECTION 14. TRANSPORT INFORMATION

Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

None known.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

SECTION 16. OTHER INFORMATION

SDS Prepared By	Ryan Kelly
Phone No.	503-866-1185
Date of Preparation	April 27, 2017
Date of Last Revision	August 16, 2017
Revision Indicators	Cleanup of typographical errors.

Product Identifier:	TG-WASH Step 1 - Ver. 1
Date of Preparation:	April 27, 2017
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SDS No.: 0144

Page 05 of 05