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Aerosol

5 STAR FOAM™ Safety Data Sheet

1. IDENTIFICATION

Product Name: 5 STAR FOAM™ Aerosol
Product Number: 56974
Product Type and Use: Cleaner
Manufacturer: U.S. Corrosion Technologies, LLC
2638 National Drive, Garland, TX 75041
Telephone: 972-271-7361 Fax: 972-278-9721
Contact:
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2. HAZARDS IDENTIFICATION

Hazard Classification

Health Hazard(s)

Skin Irritation Category 2
Eye Irritation Category 2A
STOT-SE Category 3

Physical Hazard(s)

Gases Under Pressure Compressed Gas

Hazard(s) not otherwise classified

None

Labeling

Signal Word: DANGER
Pictograms: Exclamation Mark, Gas Cylinder

Statements of Hazard

Hazard Statements

Causes skin irritation and serious eye irritation
May cause respiratory irritation
Contains gas under pressure; may explode if heated

Precautionary Statements

Store locked up in a well-ventilated place. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 122°F/50°C. Keep away from heat, hot surfaces, sparks and open flames - No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Wear eye protection and protective gloves. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Avoid breathing mist and vapors. Dispose of contents and container in accordance with applicable regulations.
If on skin: Wash with plenty of water. If skin irritation occurs: get medical advice.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical attention.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Percent by Wt.
(C10-C16) Alcohol ethoxylate, sulfated, sodium salt	68585-34-2	1-5*
2-Butoxyethanol	111-76-2	1-5*
Propane	74-98-6	1-5*
Isobutane	75-28-5	1-5*
Butane	106-97-8	1-5*

* Exact percentage of composition has been withheld as a trade secret

4. FIRST AID MEASURES

General Advice: Causes skin and serious eye irritation. Avoid skin and eye contact. Use with adequate ventilation: avoid breathing mist or vapor.

Inhalation: Remove from exposure area to fresh air. Give artificial respiration if not breathing. Get medical attention.

Skin Contact: Wipe excess from skin; remove contaminated clothing. Wash from skin with mild soap and water.

Eye Contact: Flush eyes with plenty of water for 15 minutes while holding eyelids open. Seek medical attention if irritation persists.

Ingestion: Give water, DO NOT induce vomiting. No treatment necessary unless large quantities are ingested, then seek medical advice.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Suitable: Carbon Dioxide, Dry Chemical, and Foam

Unsuitable: Alcohol, Alcohol based solutions, any other media not listed above.

Fire Fighting Procedures: As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Unusual Fire and Explosion Hazards: Flame extension: 0 inches, Burnback: negative

Hazardous Combustion/ Decomposition Products: Oxides of carbon and nitrogen

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions / Protective Equipment / Emergency Procedures: Use caution as spills may be slippery. Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition and take precautionary measures against static discharges.

Methods and materials for containment and cleaning up: Do not flush into surface water or sanitary sewer system. Dike and contain spillage. Soak up with absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite). Use clean tools to collect absorbed material and transfer to a properly labeled container for disposal according to applicable regulations.

7. HANDLING AND STORAGE

HANDLING

Precautions for Safe Handling: Avoid skin and eye contact. Use with adequate ventilation. Avoid breathing mist or vapors. Avoid ignition sources. Do not puncture or incinerate container. Follow all SDS/label precautions even after container is empty due to residue.

STORAGE

Conditions to avoid: Store in a cool, dry, well-ventilated place in the original container. Avoid excess heating, high temperatures, sparks, hot surfaces, open flames and all other sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits

Component	ACGIH		OSHA		STEL ppm	STEL mg/m3
	TLV ppm	TLV mg/m3	PEL ppm	PEL mg/m3		
2-Butoxyethanol	20 (Skin)	97	50	240	Not Est.	Not Est.
Propane	1000	1800	1000	1800	Not Est.	Not Est.
Isobutane	1000	1800	1000	1800	Not Est.	Not Est.
Butane	1000	1800	1000	1800	Not Est.	Not Est.

Engineering Controls: Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

Personal Protection

Respiratory Protection: None required under normal use conditions. In case of insufficient ventilation and for exposures above occupational exposure limits wear a NIOSH approved air purifying respirator with organic vapor cartridge.

Hand / Skin Protection: Wear impermeable gloves such as neoprene or nitrile rubber gloves.

Eye / Face Protection: Safety glasses with side-shields. An eyewash station should be available to the area of use.

General Hygiene Measures Avoid skin and eye contact. Always wash hands and face before eating, drinking or smoking. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Transparent	Lower Explosive Limit, vol %:	1.9
Physical State:	Non-viscous liquid	Autoignition Temperature:	Not established
Odor:	Mild	Volatile by volume (%):	18
Color:	Water White	Vapor Density (Air=1) :	>1
Viscosity, cSt @ 40°C:	Not established	Evaporation Rate (BuAc=1) :	<0.01
cSt @ 100°C:	Not established	Vapor Pressure, mmHg @23°C:	>1 mmHg
pH:	11.75-12.75	Solubility in water:	Soluble
Boiling Point/ Range:	>200°F / 93°C	Octanol/Water Partition:	Not established
Melting Point:	>32°F / 0°C	VOC Content (g/L)(%):	(70) 7
Flash Point:	132°C / 270°F	Specific Gravity @15.6°C:	>1
Method:	Not applicable	Pour Point:	>32°F / 0°C
Upper Explosive Limit, vol %:	8.5	Non-volatile by Volume (%):	>80

10. STABILITY AND REACTIVITY

Stability: Stable at ambient temperatures.

Conditions to Avoid: Avoid high temperatures, sparks, open flame, and all other sources of ignition

Hazardous Polymerization: Will not occur.

Materials to Avoid: Bases, acids, amines and oxidizing materials.

11. TOXICOLOGICAL INFORMATION

Product Information: Not established

Ingredient Information

Acute Toxicity

2-Butoxyethanol: Ori-Rat LD50 470 mg/kg, Skn-Rbt LD50 220 mg/kg, Ihl-Rat LC50 450 ppm 4 hr

Isobutane: Ihl-mse LC50: 520,000 ppm 2 hr

Butane: Ihl-mse LC50: 202,000 ppm (481,000 mg/m3) 4 hr; (680 mg/L 2 hr); Ihl-rat LC50: 276,000 ppm (658,000 mg/m3) (658 mg/L 4 hr)

Acute Effects

Signs and Symptoms of Overexposure: Skin and Eye Irritation, Coughing/Sneezing, Dizziness

Inhalation: Vapor and mist may cause respiratory irritation with nasal discomfort and discharge, coughing and sneezing.

Prolonged and repeated inhalation may cause nausea, dizziness and drowsiness.

Skin Contact: May cause irritation seen as redness and itching. May be absorbed through skin in harmful amounts.

Eye Contact: May cause stinging, tearing and redness.

Ingestion: May cause nausea, vomiting and diarrhea.

Primary Route(s) of Exposure: Eyes, Skin, Inhalation

Primary Route(s) of Entry: Inhalation, Ingestion

Target Organs: Liver, kidneys, lymphatic system, skin, blood, eyes, respiratory system, and central nervous system

Chronic Effects

2-Butoxyethanol Target Organ Effects: liver, kidneys, lymphatic system, skin, blood, eyes, CNS, respiratory system

Carcinogenicity

2-Butoxyethanol: ACGIH A3, IARC Group 3; Not classifiable as to its carcinogenicity to humans

Medical Conditions Aggravated by Exposure: May aggravate existing skin, eye and respiratory conditions including asthma and dermatitis.**12. ECOLOGICAL INFORMATION****Product Data:** Not established**Ingredient Data**2-Butoxyethanol: Toxicity to Fish LC50 = 1490 mg/L *Lepomis macrochirus* 96 h, Water Flea EC50 1698 - 1940 mg/L 24 h *Daphnia magna*, 1000 mg/L 48 h *Daphnia magna***Elimination Information:** Not applicable; aerosol product.**13. DISPOSAL CONSIDERATIONS****Product:** Dispose of in accordance with applicable regulations.**Container:** Empty remaining contents. Empty containers should be taken for local recycling, recovery or waste disposal. Empty containers may contain residues. Do not cut, weld, grind, puncture or incinerate empty containers.**14. TRANSPORT INFORMATION****Road Transport****DOT Hazard Class:** ORM-D**Sea Transport****IMDG/GGV See Class:** 2.1**UN-No.:** UN1950**Packing Group:** III**Proper Shipping Name:** Aerosols, Flammable**Air Transport****ICAO/IATA Class:** 2.1**UN-No.:** UN1950**Packing Group:** III**Shipping Name:** Aerosols, Flammable**15. REGULATORY INFORMATION****U.S. Federal Regulations****Toxic Substances Control Act (TSCA):** All components are included on the Inventory**Superfund Amendments and Reauthorization Act (SARA) Title III:**

Immediate Hazard	Delayed Hazard	Fire Hazard	Pressure Hazard	Reactivity Hazard
X	X	-	X	-

16. OTHER INFORMATION**Prepared by:** U.S. Corrosion Technologies, LLC Technical Services Department**Revision Date:** 8/3/2016**Supersedes Date:** 8/13/2015**Revision Indicator:** v 1.2National Fire Protection Association (704) Health: 1 Flammability: 1 Reactivity: 0 Other:
NFPA 30 B – Category 1 Aerosol

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damage incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical and application of such products is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the sole responsibility of the user to comply with all applicable Federal, State and Local Laws and Regulations. Any questions with regards to information contained herein should be referred to: U. S. Corrosion Technologies, LLC (972) 271-7361.