

1. IDENTIFICATION:

Product Name: DESCALING & CLEANING SOLUTION
Synonyms: N/A
CAS Number: Mixture
Catalog Numbers: 19402
Product Use: Analytical / Laboratory Reagent
Manufacturer: HF Scientific, Inc
Address: 3170 Metro Parkway Fort Myers, FL 33916


General Information: 888-203-7248
Transportation Emergency Number: CHEMTREC® 24 hr US 800-424-9300
 CHEMTREC® 24 hr International 703-527-3887

2. HAZARDS IDENTIFICATION

GHS Classification

Health	Environmental	Physical
Acute Toxicity: Category 4 Skin irritation: Category 1 Eye irritation: Category 1 Respiratory sensitizer: Category 1B	Aquatic toxicity: None	Flammable: No

GHS Label

Pictogram:	Signal Word:
	WARNING DANGER
Hazard Statements:	Precautionary Statements
Harmful if swallowed Harmful in contact with skin Harmful if inhaled Causes severe skin burns and eye damage Causes serious eye damage May cause asthma or breathing difficulties	IF SWALLOWED Do not induce vomit. Give 1 or 2 large glasses of water or milk. Never give anything by mouth to an unconscious person. Seek medical attention. IF ON SKIN Flush immediately with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Seek medical attention immediately. IF INHALED Immediately move to fresh air. Seek medical attention immediately. IF IN EYES Flush immediately with plenty of water for at least 15 minutes, holding eyelids apart. Seek medical attention immediately. DISPOSE contents/container in accordance with local/regional/ national/ international regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	Cas Number	Weight %
Deionized water	7732-18-5	> 85%
Phosphoric Acid	7664-38-2	14%
Tergitol Surfactant	N/A	< 1%

4. FIRST AID MEASURES

Eye Contact: Flush immediately with plenty of water for at least 15 minutes, holding eyelids apart. Seek medical attention immediately.
Skin Contact: Flush immediately with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Seek medical attention immediately.
Inhalation: Immediately move to fresh air. Seek medical attention immediately.
Ingestion: Do not induce vomit. Give 1 or 2 large glasses of water or milk. Never give anything by mouth to an unconscious person. Seek medical attention.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Suitable to cause of fire.
Fire Fighting Procedures: N/A
Unusual Fire and Exposure Hazards: N/A
Combustion Products: N/A
NFPA Classification HEALTH: 3 FLAMMABLE: 0 REACTIVITY: 0

6. ACCIDENTAL RELEASE MEASURES

Dike and cover spilled liquid with inert absorbent. Cover spill with sodium bicarbonate or soda ash or mix. Neutralized waste may be containerized and dispose of at an RCRA approved waste disposal facility. Flush area of spill with plenty of water and discard to sewer.

7. HANDLING AND STORAGE

Handling: Wash well after handling. Avoid breathing vapors.
Storage: Store in a tightly closed container. Keep away from physical damage. Store in a corrosion – proof area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: N/A
Engineering Controls: General mechanical ventilation adequate in normal use
Personal Protective Equipment:
Eyes: Safety goggles and/or full face shield
Skin: Rubber gloves and laboratory tract
Respiratory: Not required under normal use. Avoid misting conditions

9. PHYSICAL AND CHEMICAL PROPERTIES

Flashpoint: N/A
Autoignition Temperature: N/A
Boiling Point: 212°F
Melting Point: N/A
Vapor Pressure: N/A
Vapor Density: N/A
% Solubility in Water: Complete
Pour Point: N/A
Molecular Formula: Mixture
Odor / Appearance: Clear, colorless liquid, mild organic odor
Lower Flammability Limit: N/A
Upper Flammability Limit: N/A
Specific Gravity: 1.07 @ 25°C
% Volatile: N/A
Evaporation Rate (Water=1): N/A
Viscosity: N/A
Octanol / Water Partition Coefficient: N/A
pH: 1.0 – 1.5 (100%); 2.0 – 3.0 (1%)
Molecular Weight: Mixture

10. STABILITY AND REACTIVITY

Stability / Incompatibility: Stable under most conditions. Mix only with water. Reacts with some metals; reacts vigorously with alkaline chemicals. Do not mix with chlorinated detergents or sanitizers, ill cause hazardous vapors.
Hazardous Reactions / Decomposition Products: N/A

11. TOXICOLOGICAL INFORMATION

Symptoms of Overexposure: Can cause severe irritation of the skin, eyes and respiratory tract. It can cause chemical burns of mouth, throat and stomach if ingested.
Acute Effects: Can cause severe irritation of the skin, eyes and respiratory tract. It can cause chemical burns of mouth, throat and stomach if ingested.
Eye Contact: Severe eye irritation
Skin Contact: Severe skin irritation
Inhalation: Severe respiratory tract irritation
Ingestion: Burns to the mouth, throat and stomach
Target Organs Effects: N/A
Chronic Effects: N/A
Medical Conditions Aggravated by Exposure: Asthma and other respiratory tract problems
Acute Toxicity Values: N/A

12. ECOLOGICAL INFORMATION

Environmental Fate:When Released into the Soil, This Material may Leach into Groundwater. When Released to Water, Acidity may be Readily Reduced by Natural Water Hardness Minerals.
Environmental Toxicity:No information found.

13. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with Federal, State and Local Regulations.

14. TRANSPORT INFORMATION

US DOT (United States Department of Transportation): Phosphoric Acid, 8, UN1805, PG III

15. REGULATORY INFORMATION

CERCLA: No
SARA/Title III: No
TSCA Inventory: Yes
Cal. Proposition 65: No
WHMIS: No
DSL: Yes
NDSL: No

16. OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. ALL PRODUCTS ARE OFFERED IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT PRODUCTION SPECIFICATIONS AND ARE INTENDED SOLELY FOR USE IN ANALYTICAL TESTING. THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE RESULTING FROM THE HANDLING, USE OR MISUSE OF THESE PRODUCTS.