

# Material Safety Data Sheet

## 1. PRODUCT IDENTIFICATION: DESCALING & CLEANING SOLUTION

Catalog Number: HF Scientific - 19402

PRODUCT USE: Analytical / Laboratory Reagent

NFPA RATINGS: HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 0

## 2. HAZARDS IDENTIFICATION

TARGET ORGANS: Skin, eyes, respiratory and gastrointestinal tract  
 ACUTE TOXICITY: Can cause severe irritation of the skin, eyes and respiratory tract. It can cause chemical burns of mouth, throat and stomach if ingested.  
 CHRONIC TOXICITY: None reported  
 MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Asthma and other respiratory tract problems.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	Percent
COMPONENT: Phosphoric Acid CAS NUMBER: 7664-38-2	14%
COMPONENT: Tergitol Surfactant CAS NUMBER: N/A	<1%
COMPONENT: Water CAS NUMBER: 7732-18-5	>85%

## 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

FLASH POINT: N/A AUTOIGNITION POINT: N/A  
 FLAMMABILITY LIMITS: UPPER: N/A LOWER: N/A  
 EXTINGUISHING MEDIA: Suitable to cause of fire

## 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

Store in a tightly closed container. Keep away from physical damage. Store in a corrosion – proof area.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection: Not required under normal use. Avoid misting conditions.  
 Ventilation systems: general mechanical ventilation adequate in normal use.  
 Skin protection: Rubber gloves and laboratory coat  
 Eye protection: Safety goggles and/or full face shield  
 Other Protective equipment: Eye wash and quick drench facilities  
 Work / Hygienic Practices: Wash well after handling. Avoid breathing vapors.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	212°F
Solubility in water:	Complete
Vapor pressure (mm Hg):	Not determined
Freezing point:	Not determined
Appearance and Odor:	Clear, colorless liquid, mild organic odor
Vapor density (AIR=1):	Not determined
Specific gravity:	1.07 @ 25°C
Percent volatile by volume:	Not determined
Evaporation Rate:	Not determined
PH @ 25°C:	1.0 – 1.5 (100%); 2.0 – 3.0 (1%)

## 10. STABILITY AND REACTIVITY

Stability: Stable under most conditions  
 Conditions to avoid: 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.

## 11. TOXICOLOGICAL INFORMATION

Route of Exposure: Inhalation, Contact and Ingestion  
 Teratogen Status: None reported  
 Mutagen Status: None reported  
 Reproductive Toxicity: None reported  
 Carcinogen Status: NTP Listed: No  
 IARC Monographs: No  
 OSHA Regulated: No

## 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

DOT Classification: Phosphoric Acid, 8, UN1805, PG III

## 15. REGULATORY INFORMATION

Chemical Inventory Status –  
 Part 1:Ingredient TSCA EC Japan Australia  
 Phosphoric Acid (7664-38-2) Yes Yes Yes Yes  
 Chemical Inventory Status –  
 Part 2:Ingredient Korea DSL NDSL Phil.  
 Phosphoric Acid (7664-38-2) Yes Yes No Yes  
 Federal, State & International Regulations –  
 Part 1: Ingredient RQ TPQ List Chem Catg.  
 Phosphoric Acid (7664-38-2)NO NO NO NO  
 Federal, State &  
 International Regulations –  
 Part 2:Ingredient CERCLA 261.33 8(d)  
 Phosphoric Acid (7664-38-2) 5000 No  
 TSCA 12 (b):No CDTA:No  
 Acute: NO  
 Chronic: NO  
 Fire: NO  
 Pressure: No  
 Reactivity: No  
 SARA 311/312: PURE/Liquid)  
 Australian Hazchem 2R  
 Poison Schedule:S5

## 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.