



DATASHEET

PHOS-SCRUB

DESCRIPTION:

Phos-Scrub is an industrial acidic cleaner. This product is water-based and is comprised of phosphoric acid, surfactants, and solvents. The surfactants and solvents allow the acid to deeply penetrate surfaces such as tank walls and concrete. Phos-Scrub is excellent for removing rust, deep stains, color, oils and other residues from tank walls. Phos-Scrub is also an excellent passivator. Furthermore, this product removes calcium and lime deposits on most surfaces. Lastly, Phos-Scrub has been used to pull PCB residues from tank walls to within allowable limits.

PRODUCT USES & APPLICATIONS

- Tank & Line Cleaning
- Concrete Cleaning
- Stain Removal
(on tank walls and concrete)
- PCB Remover
- Calcium & Lime Remover
- Excellent Acidic
Degreasing Agent

APPLICATION INSTRUCTIONS

Dilution Rate	Up to 10 times with water
Set Time	30 min to 24 hrs
Temperature	Warm water helps stripping

Special Instructions: To avoid a reaction, when diluting this product, always add this product to water. Never add water directly to this product!

HAZARDOUS INFORMATION

Specific Hazard	Corrosive!
Flash Point (°F)	Above 220°F
Specific Gravity	1.10 at 68°F
pH	1.5-2
Unusual Hazards	None
Other Information	Contains phosphoric acid!

PACKAGING INFORMATION

Available Quantities	5,30,55,275 and bulk
Packaging Material	Poly
Other Information	Do not let product freeze.

CASE STUDY & APPLICATION INFO

2005: Texas Liquid Terminal Seabrook, TX

A tank cleaning company had already cleaned a tank but was failing the wall test. The wall color was still too high for the tank to allow the next product to be stored. The tank cleaning company tried washing the tank with caustic but still could not get the color down to allowable limits. Vapor Tech was called out and we tested our Phos-Scrub on a small section of the tank. It was allowed to soak for 30 minutes and then it was rinsed with water and dried. A wallwash test was then performed and that area passed. Phos-Scrub was then applied the next day and the tank passed the color test two days later after it was rinsed thoroughly.

2004: Chemical Company Houston, TX

This customer had a build-up of calcium and lime deposits on fin fans and condenser coils. Phos-Scrub was sprayed on the fans/coils and allowed to soak for a few minutes. After 15 minutes the fans/coils were sprayed with water. Phos-Scrub dissolved the deposits and only one application was needed. The use of Phos-Scrub was then instituted in the customers' SOP for regular cleaning and maintenance of the fans and coils. The Phos-Scrub residues were pH balanced with sodium bicarbonate and then sent to their small WWTP.



GHS SAFETY DATA SHEET 'PHOS-SCRUB'

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name..... PHOS-SCRUB
 Chemical Use..... Acidic Cleaner
 Chemical Family..... Mixture
 Issue Date of SDS..... June 30, 2014
 Revision Date of SDS..... 1/31/2022

MANUFACTURER:

Vapor Technologies, Inc.
 7200 Williams Street
 Hitchcock, TX 77563
 (409) 316-0173
www.vapor-tech.net

EMERGENCY TELEPHONE NUMBER: (877) 840-0646

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

<u>Health</u>		<u>Environmental</u>		<u>Physical</u>	
Skin Corrosion:	Category 1A	Acute Toxicity:	Category 3	Corrosive to Metals:	Category 1
Acute Toxicity - Oral:	Category 4	(Aquatic Environment)			
Acute Toxicity-Inhalation	Category 4				
Eye Damage:	Category 1				

GHS LABEL:

SIGNAL WORD:

DANGER



GHS05 Corrosive



GHS07 Irritant

Hazard Statements

H290: May be corrosive to metals.
 H302: Harmful if swallowed.
 H314: Causes severe skin burns and eye damage.
 H318: Causes serious eye damage.
 H332: Harmful if inhaled.
 H402: Harmful to aquatic life.

Precautionary Statements

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
 P264: Wash hands thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P271: Use only outdoors or in a well ventilated area.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P301 + P312: IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.
 P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310: Immediately call a POISON CENTER or doctor/physician.
 P363: Wash contaminated clothing before reuse.
 P390: Absorb spillage to prevent material damage.
 P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

	<u>NFPA</u>
Health	3
Flammability	0
Reactivity	1
Special Notice	COR

<u>HMIS</u>		
3	Health	1 - Slight
0	Flammability	2 - Moderate
1	Physical Hazard	3 - Serious
B	PPE	4 - Severe
		B - Safety Glasses & Gloves

INGREDIENTSCAS#CONCENTRATION

Phosphoric Acid

7664-38-2

25%

SECTION 4 - FIRST AID MEASURES

Eye Contact..... Immediately flush eyes with plenty of water lifting eyelids frequently. Continue to flush eyes for 15 minutes. Repeat if necessary. Get medical attention immediately!

Skin Contact..... Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops or persists.

Inhalation..... Remove to fresh air! If unconscious, have trained personnel administer oxygen. Get medical attention immediately.

Ingestion..... **DO NOT INDUCE VOMITING!** Drink one or two glasses of water and get medical attention immediately!

SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Use foam, carbon dioxide, or water spray to extinguish flames.

Unsuitable Extinguishing Media:..... No further relevant information available.

Combustion Products: Not considered to be an explosion hazard.

Fire Fighting Instructions..... As with any fire, wear sealed contained breathing apparatus, pressure demand MSHA/NIOSH (approved or equivalent) and full protective gear. Water runoff may cause environmental damage. Dike and collect water used to fight fire.

SECTION 6 - ACCIDENTAL RELEASE MEASURE

Personal Precautions:..... Prevent contact with skin and eyes. See Section 8.

Environmental Precautions..... Prevent entry of product into drains, sewers, surface or ground water.

Methods for Cleaning Up:..... Clean up spills immediately. Absorb spill with inert material (e.g., dry sand or earth), then place in a suitable container for disposal.

SECTION 7 - HANDLING AND STORAGE

Handling:..... Avoid contact with eyes, skin and clothing.
Do not eat, drink or smoke when using this product.
Wear protective gloves, clothing and eye protection when handling this product.
Use in well ventilated areas.

Storage..... Store in cool, dry place in original container and keep away from direct sunlight.
Keep container closed when not in use.

Shelf-Life..... One to two years normally.

Storage Temperature..... 5 - 43°C (41 - 110°F)

SECTION 8 EXPOSURE CONTROL / PERSONAL PROTECTION

EXPOSURE LIMITS:	<u>Component</u>	<u>ACGIH (TLV)</u>	<u>ACGIH (STEL)</u>	<u>OSHA (PEL)</u>
	Phosphoric Acid	Not Known	2mg/m3 over 8 hours	Not Known

Engineering Controls..... Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment (PPE):

Eye Protection..... Wear safety-goggles with side shields (or goggles). Contact lenses should not be worn.

Skin Protection..... Wear chemical resistant gloves.

Respiratory Protection..... Respirator required when in contact with fumes or mist of this product.

General Hygiene Consideration..... There are no known health hazards associated with this product when used as recommended.
The following general hygiene considerations are recognized as common, good industrial hygiene practices:

- Wash hands after use and before eating.
- Avoid breathing vapors.
- Wear safety glasses and gloves.

Exposure Limits..... Not established for product as whole.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance..... Clear Liquid.

Odor..... Solvent Odor.

Vapor Pressure..... Not Determined.

Odor Threshold..... Not Determined.

Vapor density (Air=1)..... 3.4

pH..... 1 - 2

Melting point/Freezing point:..... Not Determined / 30°F

Solubility in water..... 100%

Initial boiling point and range..... 220°F / Not Determined.

Flash Point..... Not Flammable.

Evaporation rate..... Not Determined.

Flammability (solid, gas):..... Not Flammable.

Upper/Lower flammability or explosive limits:..... Non-Flammable product.

