

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 CleaningConcrete Cleaning
- PCB Remover
- Calcium & Lime Remover
- Stain Removal (on tank walls and concrete)
- 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
рН	1.5-2
Unusual Hazards	None
Other Information	Contains phosphoric acid!

PACKAGING INFORMATION

Available Quantities Packaging Material Other Information 5,30,55,275 and bulk Poly 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

1/12 NOTANA IN TRANSPORT

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.



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Specialty Environmental Chemicals & Equipment



		GHS SAFETY D	ATA SHEET		
'PHOS-SCRUB'					
SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION					
Product Name	PHOS-SCRUB			MANUFACTURER:	
Chemical Use	Acidic Cleaner			Vapor Technologies, Inc.	
Chemical Family	Mixture			7200 Williams Street	
Issue Date of SDS	June 30, 2014			Hitchcock, TX 77563	
Revision Date of SDS	1/31/2022			(409) 316-0173	
	EMERGENCY T	ELEPHONE NUMBER: (877) 840-0646	www.vapor-tech.net	
SECTION 2 - HAZARDS I	DENTIFICATION				
GHS CLASSIFICATION:					
<u>Health</u>		Env	<u>ironmental</u>	<u>Physic</u>	<u>al</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 Irritan) It	-		
Haz	ard Statements	h t	Precau	Itionary Statements	
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Haz H290: May be corrosive to meta H302: Harmful if swallowed.	ard Statements Is.	ht	Precau P261: Avoid breathing dust, P264: Wash hands thoroug	/fume/gas/mist/vapors/spray. hly after handling.	
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	<u>NFPA</u>
Health	3
Flammability	0
Reactivity	1
Special Notice	COR

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

	I/INFORMATION		ITS Page 2	PHOS-SCRUB		
<u>INGREDIENTS</u> Phosphoric Acid		<u>CAS#</u> 7664-38-2		<u>CONCENTRATION</u> 25%		
SECTION 4 - FIRST AID MEA	SURES					
Eye Contact	Immediately flush ey	yes with plenty of wate	er lifting eyelids frequently. Co	ontinue to flush eyes for 15 minutes. Repeat if		
	necessary. Get med	ical attention immedia	ately!			
Skin Contact	Remove contaminat	ed clothing. Wash skir	n with soap and water. Get m	edical attention if irritation develops or persists.		
Inhalation	Remove to fresh air!	If unconscious, have	trained personnel administer	oxygen. Get medical attention immediately.		
ngestion	DO NOT INDUCE VO	MITING! Drink one o	r two glasses of water and get	medical attention immediately!		
SECTION 5 - FIREFIGHTING	MEASURES					
Suitable Extinguishing Media:	Use foam, carbon di	oxide, or water spray	to extinguish flames.			
Unsuitable Extinguishing Media:						
Combustion Products:	Not considered to be	e an explosion hazard.				
Fire Fighting Instructions	As with any fire, wea	ar sealed contained bro	eathing apparatus, pressure d	emand MSHA/NIOSH (approved or equivalent)		
	and full protective g	ear. Water runoff may	y cause environmental damage	e. Dike and collect water used to fight fire.		
SECTION 6 - ACCIDENTAL R	ELEASE MEASU	RE				
Personal Precautions:	Prevent contact with	n skin and eyes. See Se	ection 8.			
Environmental Precautions	Prevent entry of pro	duct into drains, sewe	rs, surface or ground water.			
Methods for Cleaning Up:	Clean up spills imme	diately. Absorb spill w	vith inert material (e.g., dry sa	nd or earth), then place in a suitable container		
	for disposal.					
SECTION 7 - HANDLING AN	D STORAGE					
Handling:		eyes, skin and clothing.				
		smoke when using this				
	Wear protective glov	ves, clothing and eye p	protection when handling this	product.		
	Use in well ventilate	d areas.				
Storage	Store in cool, dry pla	ace in original containe	er and keep away from direct s	unlight.		
	Keep container close	ed when not in use.				
Shelf-Life	One to two years no	rmally.				
Storage Temperature	5 - 43°C (41 - 110°F)					
		AL PROTECTION				
SECTION 8 EXPOSURE CON		AL PROTECTION ACGIH (TLV)	ACGIH (STEL)	<u>OSHA (PEL)</u>		
SECTION 8 EXPOSURE CON	TROL / PERSON			<u>OSHA (PEL)</u> Not Known		
SECTION 8 EXPOSURE CON EXPOSURE LIMITS:	TROL / PERSON Component Phosphoric Acid	ACGIH (TLV) Not Known	ACGIH (STEL) 2mg/m3 over 8 hours			
SECTION 8 EXPOSURE CON EXPOSURE LIMITS: Engineering Controls	TROL / PERSON/ Component Phosphoric Acid Good general ventile	ACGIH (TLV) Not Known	ACGIH (STEL) 2mg/m3 over 8 hours			
SECTION 8 EXPOSURE CON EXPOSURE LIMITS: Engineering Controls Personal Protective Equipment (PPE)	TROL / PERSON Component Phosphoric Acid Good general ventila	ACGIH (TLV) Not Known ation should be sufficie	ACGIH (STEL) 2mg/m3 over 8 hours ent to control airborne levels.	Not Known		
SECTION 8 EXPOSURE CON EXPOSURE LIMITS: Engineering Controls Personal Protective Equipment (PPE) Eye Protection	TROL / PERSON Component Phosphoric Acid Good general ventila : Wear safety-goggles	ACGIH (TLV) Not Known ation should be sufficie with side shields (or g	ACGIH (STEL) 2mg/m3 over 8 hours ent to control airborne levels.	Not Known		
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SECTION 8 EXPOSURE CON EXPOSURE LIMITS: Engineering Controls Personal Protective Equipment (PPE) Eye Protection Skin Protection Respiratory Protection	TROL / PERSON/ Component Phosphoric Acid Good general ventila : Wear safety-goggles Wear chemical resis Wear chemical resis Respirator required There are no known The following genera • Wash hands after	ACGIH (TLV) Not Known ation should be sufficie with side shields (or g tant gloves. when in contact with f health hazards associa al hygiene consideratio er use and before eatir	ACGIH (STEL) 2mg/m3 over 8 hours ent to control airborne levels. goggles). Contact lenses shoul fumes or mist of this product. ated with this product when u ons are recognized as commor	Not Known d not be worn. sed as recommended.		
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SECTION 9 - PHYSICAL 8	CHEMICAL PRO	PERTIES (Continued)	Page 3	PHOS-SCRUB
Partition coefficient		Not Determined.		
Auto igniting temperature		Product is not self igniting.		
Decomposition temperature		Not Determined.		
Viscosity		Not Determined.		
Specific Gravity (water = 1)		1.14 to 1.16		
SECTION 10 - STABILITY	& REACTIVITY			
Reactivity		No dangerous reaction known u	nder conditions of normal use.	
Chemical Stability		Stable.		
Hazardous Polymerization		Will not occur.		
Incompatibilities		Soft Metals.		
Decomposition Products		None determined.		
SECTION 11 - TOXICOLO	GICAL INFORMA	TION		
Likely Routes of Exposure:	Inhalation, Eye ar	nd Skin Contact		
Acute symptoms and effects:				
Еуе	Corrosive! Cause	s severe burns to eye tissue.		
Skin	Corrosive! Expos	ure to skin will cause mild to sev	vere burns.	
Ingestion	Severe gastric da	mage.		
Inhalation:	Burning to nasal p	bassages and soft tissue.		
Chronic Exposure:	Based on availabl	e data, repeated exposures are	not anticipated to cause addition	al significant adverse effects.
Toxicity Data:	LD50	<u>LC50</u>		
	Not Known	Not Known		
Carcinogenicity	Not a known card	inogen		
SECTION 12 - ECOLOGIC	AL INFORMATIO	N		
Ecotoxicity:	Harmful to aquat	ic life. Product may affect the ac	cidity (pH-factor) in water with ri	sk of harmful effects to aquatic organisms.
Mobility in soil:	No further releva	nt information available.		
Degradability:	Expected to readi	ly biodegrade.		
Bioaccumulation:	No further releva	nt information available.		
SECTION 13 - DISPOSAL	CONSIDERATION	1		

PHOS-SCRUB is not considered a hazardous waste under Federal Hazardous Waste Regulations 40 CFR 261. Please be advised, however, that state and local

requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local authorities regarding the proper disposal of this material. Altering this chemical may change waste disposal characteristics.

SECTION 14 - TRANSPORTATION INFORMATION

	<u>A.</u>	USA:	UN Number UN1805
		D.O.T	UN Proper Shipping Name Corrosive Liquid, 8, N.O.S. (Phosphoric Acid).
			Packaging group III
			D.O.T. Label UN1805, Corrosive Liquid, 8.
8			D.O.T. Placard Corrosive.
			Freight Class Package Class 55
Required Shipping Label	<u>B.</u>	CANADA:	TDG Corrosive Liquid.
	<u>C.</u> <u>E</u>	NGLAND	Approved Carriage List Corrosive Liquid.
ECTION 15 - REGULATORY IN	ORMATIO	N	
	Α.	USA:	TSCA Status

	<u>A.</u>	USA:	TSCA Status	. All ingredients listed on TSCA Inventory.
			SARA TITLE III, 302/303 EHS	. None
			SARA TITLE III, 304 HS	None
			SARA TITLE III, 311/312	. None
			SARA TITLE III, 313	. None
	<u>B.</u>	CANADA:	DSL/NDSL	All ingredients are listed.
			WHMIS	Not Classified.
	<u>C.</u>	<u>EC:</u>	EINECS	. All ingredients are listed.
SECTION 16 OTHER INCORMATION				

SECTION 16 - OTHER INFORMATION

For details on specific requirements, you should contact the appropriate agency in your state.

While Vapor Technologies Inc. believes the information contained herein to be true and accurate, it has relied on information provided by others. Vapor Tech makes no warranties, expressed or implied, as to the accuracy of the information contained herein or with respect to the results to be obtained from the use of this product. Vapor-Tech disclaims all liability with respect to the use of this product, including without limitation, liability for injury to the user or third-party persons.