



HAZARD RATING
4=EXTREME
3=HIGH
2=MODERATE
1=SLIGHT
0=INSIGNIFICANT

HEALTH	3
FLAMMABILITY	0
REACTIVITY	0

SAFETY DATA SHEET
VEXCON NO. FR201
CERTI-VEX RUST REMOVER

SECTION I - GENERAL INFORMATION

PRODUCT IDENTIFICATION: CERTI-VEX RUST REMOVER	
VOC CONTENT:	NOT REQUIRED
CATEGORY:	NONE
COMMON NAME:	PHOSPHORIC ACID SOLUTION
MANUFACTURER:	VEXCON CHEMICALS, INC
ADDRESS:	7240 STATE RD, PHILADELPHIA, PA 19135
EMERGENCY NO.:	800.858.2828 (PolySat Inc)
TELEPHONE NO.:	215.332.7709 (Vexcon)
CHEMTREC NO.:	800.424.9300 (CCN# 23822)
PREPARED:	APRIL 2015
UPDATED:	APRIL 2015
PREPARED BY:	DARRY F. MANUEL, PRESIDENT

SECTION II - HAZARD IDENTIFICATION


DOT SHIPPING NAME:
UN ID NUMBER / SHIPPING NAME / HAZARD CLASS / PKG GROUP
IN CONTAINERS LESS THAN 1.3 GALS:
(NON-REGULATED)

IN CONTAINERS GREATER THAN 1.3 GALS:
UN1805, CORROSIVE LIQUID, ACID, INORGANIC, N.O.S.
(PHOSPHORIC ACID), 8, III, RQ (5000 LBS.)

FOR LIMITED QUANTITY AIR & OCEAN SHIPMENT:
UN1805, CORROSIVE LIQUID, ACID, INORGANIC, N.O.S. (PHOSPHORIC ACID), 8, III, RQ (5000 LBS.)

LTD QTY Limits:
Passenger Air Limit 5L (1.3gal);
Cargo Air Limit 60L (15.8gal)

HEALTH AND SAFETY: CORROSIVE LIQUID: ORAL POISON FIRE
MAY PRODUCE IRRITATING OR POISONOUS GAS. USE OF
IMPERMEABLE GLOVES AND OTER PROTECTIVE CLOTHING IS
ADVISED WHEN HANDLING THIS PRODUCT.



SECTION III HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENTS	CAS NO.	%	HAZARD DATA	UN#
Ethylene Glycol Ether	2807-30-9	3-8%	OSHA HAZARD: COMBUSTIBLE LIQUID Dow IHG 20 ppm TWA ILO 20 ppm, 86 mg/m ³	1993
Phosphoric Acid	7664-38-2	24-40%	OSHA HAZARD: Corrosive Liquid OSHA TWA: 1mg/m ³ 8-hr, 3mg/m ³ STEL	1805
Water	NA	Bal	NA	NA

SECTION IV FIRST AID MEASURES

HEALTH HAZARD DATA HAZARD CLASSIFICATION BASIS FOR CLASSIFICATION SOURCE

ROUTES OF EXPOSURE:	
INHALATION:	VAPOR INHALATION CAN CAUSE NASAL AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA OR HEADACHE.
SKIN CONTACT:	THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT.
SKIN ABSORPTION:	THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT.
EYE CONTACT:	THIS PRODUCT MAY BE AN EYE IRRITANT.
INGESTION / INHALATION	CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING. DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION.
EFFECTS OF OVEREXPOSURE:	ANESTHESIA, HEADACHE, NAUSEA, DIZZINESS. LIQUIDS MODERATELY IRRITATING ON SKIN AND EYES.
ACUTE OVEREXPOSURE:	ANESTHESIA, HEADACHE, NAUSEA, DIZZINESS: MODERATE IRRITATION BY LIQUID TO SKIN AND EYES. PROLONGED CONTACT ON THE SKIN WILL CLAY AND DEFAT THE SKIN POSSIBLY CAUSING DERMATITIS.
EMERGENCY AND FIRST AID PROCEDURES:	
EYES:	FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK IMMEDIATE MEDICAL ATTENTION. CONSULT A PHYSICIAN.
SKIN:	WASH WITH SOAP AND LARGE QUANTITIES OF WATER. SEEK MEDICAL ATTENTION IF SKIN IRRITATION DEVELOPS AND PERSISTS.
INHALATION:	MOVE TO LOCATION FREE FROM VAPORS. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF BREATHING STOPS, BEGIN ARTIFICIAL RESPIRATION AND SEEK IMMEDIATE MEDICAL ATTENTION.
INGESTION:	DO NOT INDUCE VOMITING; SEEK IMMEDIATE MEDICAL ATTENTION.

SECTION V FIREFIGHTING MEASURES

EXTINGUISHING MEDIA:	EXCLUDE AIR. FIRES INVOLVING THIS PRODUCT MAY BE CONTROLLED BY REGULAR FOAM, CARBON DIOXIDE, DRY CHEMICALS OR WATER SPRAY.
GENERAL HAZARD:	THIS MATERIAL IS AN ACID TREATMENT IS SYMPTOMATIC AND SUPPORTIVE. PHOSPHORIC ACID HAS IRRITATING EFFECTS TO MUCCOUS MEMBRANES
UNUSUAL FIRE AND EXPLOSION HAZARD:	WATER MIX: NO UNUSUAL HAZARDS. MAY GIVE OFF TOXIC FUMES (OXIDES OF PHOSPHORUS) IN A FIRE. MAY REACT WITH MATERIALS TO LIVERATE HYDROGEN A FLAMMABLE GAS.
SPECIAL FIRE FIGHTING PROCEDURES	THE USE OF SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE PIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE SHOULD BE PROVIDED FOR FIRE FIGHTERS IN BUILDINGS OR CONFINED AREAS WHERE THIS PRODUCT IS STORED.

SECTION VI ACCIDENTAL RELEASE MEASURES

AQUATIC TOXICITY (E.G. 96 HR. TLM): DO NOT DISCHARGE THIS PRODUCT INTO PUBLIC WATERS OR WATERWAYS UNLESS AUTHORIZED BY A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT ISSUED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA).

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
LAND SPILL: ELIMINATE SOURCES OF IGNITION. PREVENT ADDITIONAL DISCHARGE OF MATERIAL; IF POSSIBLE TO DO SO WITHOUT HAZARD. FOR SMALL SPILLS, IMPLEMENT CLEANUP PROCEDURES. FOR LARGE SPILL, IMPLEMENT CLEAN UP PROCEDURES AND, IF IN PUBLIC AREA, KEEP PUBLIC AWAY AND ADVISE AUTHORITIES. ALSO, IF THIS PRODUCT IS SUBJECT TO CERCLA REPORTING NOTIFY THE NATIONAL RESPONSE CENTER. PREVENT LIQUID FROM ENTERING SEWERS, WATERCOURSES, OR LOW AREAS. CONTAIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST. RECOVER BY PUMPING (USE AN EXPLOSION PROOF OR HAND PUMP) OR WITH A SUITABLE ABSORBENT. CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO EPA, FEDERAL, STATE, AND LOCAL DISPOSAL REGULATIONS.
WATER SPILL: REMOVE FROM SURFACE BY SKIMMING OR WITH SUITABLE ABSORBENTS. IF ALLOWED BY LOCAL AUTHORITIES AND ENVIRONMENTAL AGENCIES, SINKING AND/OR SUITABLE DISPERSANTS MAY BE USED IN NON-CONFINED WATERS. CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO EPA, FEDERAL, STATE, AND LOCAL DISPOSAL REGULATIONS.

WASTE DISPOSAL METHOD: IF POSSIBLE, PUMP TO CONTROLLED CONTAINMENT AREA. ABSORB ON CLAY OR SAND. DISPOSE OF IN COMPLIANCE WITH EPA, FEDERAL, STATE, AND LOCAL REGULATIONS. TREATMENT, TRANSPORTATION AND DISPOSAL MUST BE IN COMPLIANCE WITH EPA FEDERAL, STATE, AND LOCAL REGULATIONS UNDER THE RESOURCES CONSERVATION AND RECOVERY ACT (RCRA, 40 CFR 261). TYPICALLY CONTROLLED BURNING, INCINERATION OR APPROVED LAND FILL SITES ARE AVAILABLE.

SECTION VII HANDLING AND STORAGE

PRECAUTIONARY STATEMENTS: PERSONNEL SHOULD AVOID INHALATION OF VAPORS. PERSONAL CONTACT WITH THE PRODUCT SHOULD BE AVOIDED. SHOULD CONTACT BE MADE, REMOVE SATURATED APPAREL AND FLUSH AFFECTED BODY AREAS WITH WATER. CLOTHING MUST BE WASHED AND DRIED BEFORE REUSE. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE (VAPOR, LIQUID AND/OR SOLID). ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET MUST BE OBSERVED.

FIRE FIGHTING: WATER MAY BE UNSUITABLE AS AN EXTINGUISHING MEDIUM BUT HELPFUL IN KEEPING ADJACENT CONTAINERS COOL. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES. PERSONNEL SHOULD AVOID INHALATION OF VAPORS.

OTHER HANDLING AND STORAGE REQUIREMENTS: STORE AND USE IN WELL VENTILATED AREA, EQUIVALENT TO FRESH AIR. KEEP CONTAINERS COOL, DRY, AND AWAY FROM SOURCES OF IGNITION. KEEP CONTAINER TIGHTLY CLOSED. DO NOT STORE WITH INCOMPATIBLE MATERIALS. STORE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. DO NOT STORE OR CONSUME FOOD, DRINK, OR TOBACCO IN AREAS WHERE THEY MAY BECOME CONTAMINATED WITH THIS MATERIAL. KEEP AWAY FROM HIGH TEMPERATURES, OPEN FLAMES, SPARKS, SOURCES OF IGNITION, ETC. USE WITH EXPLOSION PROOF EQUIPMENT IS HIGHLY ADVISABLE.

SECTION VIII EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION REQUIREMENTS: LOCAL MECHANICAL VENTILATION MAY BE SUFFICIENT TO KEEP PRODUCT VAPOR CONCENTRATIONS WITHIN SPECIFIED TIME-WEIGHTED TLV RANGES. IF LOCAL VENTILATION PROVES INADEQUATE TO MAINTAIN SAFE VAPOR CONCENTRATIONS, SUPPLEMENTAL LOCAL EXHAUST MAY BE REQUIRED. OTHER SPECIAL PRECAUTIONS SUCH AS RESPIRATORY MASKS OR ENVIRONMENTAL CONTAINMENT DEVICES MAY BE REQUIRED IN EXTREME CASES.

RESPIRATORY (SPECIFY IN DETAIL): THE USE OF RESPIRATORY PROTECTION DEPENDS ON VAPOR CONCENTRATION ABOVE THE TIME WEIGHTED TLV: USE OF OSHA APPROVED CARTRIDGE RESPIRATOR OR GAS MASK OR AIR-PACK. CHEMICAL CARTRIDGE RESPIRATOR: HALF MASK ORGANIC VAPOR CARTRIDGE. FULL FACE ORGANIC VAPOR CARTRIDGE IF EYE PROTECTION IS NEEDED.

EYES: CHEMICAL GOGGLES AND/OR FACE SHIELD ARE RECOMMENDED TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY.

GLOVES: THE USE OF IMPERMEABLE GLOVES IS ADVISED TO PREVENT SKIN IRRITATION IN SENSITIVE INDIVIDUALS. IMPERVIOUS GLOVES, (CHEMICAL RESISTANT) SUCH AS NEOPRENE, LATEX OR PVA.

OTHER CLOTHING AND EQUIPMENT: TO PREVENT BODY CONTACT, IMPERVIOUS CLOTHING AND BOOTS ARE RECOMMENDED. IMPERVIOUS APRONS AND HELMETS (HEAD COVER) ARE RECOMMENDED WHEN WORKING WITH THIS PRODUCT. THE AVAILABILITY OF EYE WASHES AND SAFETY SHOWERS IN WORK AREAS IS RECOMMENDED.

SECTION IX PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: (760mmHg) 135°F - 202°F / 57°C - 94°C	MELTING/FREEZING POINT: DECOMPOSES
VAPOR PRESSURE: 0.0285 mm Hg @ 68°F	VAPOR DENSITY (AIR=1):
SOLUBILITY IN H2O % BY WT: 100%	% VOLATILES BY VOL: 70%
EVAPORATION RATE (BuAc=1): <1	REALITIVE DENSITY (H2O=1) 1.575 – 1.808
pH (AS IS): 3.0 HAZARDOUS ACID	pH (1% SOLN): 1.6-1.7
APPEARANCE AND ODOR: STRAW COLOR NATURAL ODOR	
FLASH POINT: (TEST METHOD)	NA
AUTOIGNITION TEMP:	NA
FLAMMABLE LIMITS IN AIR, % BY VOL:	NA

SECTION X STABILITY AND REACTIVITY

CONDITIONS CONTRIBUTING TO INSTABILITY:	THIS PRODUCT IS STABLE. IF HEATED TO DRYNESS, CAN DECOMPOSE TO TOXIC GASES.
INCOMPATIBILITY:	THIS PRODUCT IS INCOMPATIBLE WITH STRONG OXIDIZING AGENTS, STRONG ACIDS OR BASES, AND SELECTED AMINES.
HAZARDOUS DECOMPOSITION PRODUCTS:	PHORSPHROUS OXIDES
CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION:	N/A WILL NOT OCCUR

SECTION XI TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	PHOSPHORIC ACID 75%	ORAL – RAT LD50	4,400 mg/kg; SLIGHTLY TOXIC
		DERMAL – RABBIT LD 50	>3,160 mg/kg SLIGHTLY TOXIC
		EYE IRRITATION – RABBIT (24 HR. EXP)	CORROSIVE
		SKIN IRRITATION – RABBIT (24 HR. EXP)	CORROSIVE
		DOT DKIN CORROSION – RABBIT (4 HR EXP)	NON CORROSIVE
	PHOSPHORIC ACID 80%	ORAL – RAT – LD 50	4,200 mg/kg SLIGHTLY TOXIC
		DERMAL – RABBIT – LD50	?3,160 mg/kg SLIGHTY TOXIC
		EYE IRRITATION – RABBIT (2HR EXP)	CORROSIVE
		SKIN IRRITATION – RABBIT (24HR EXP)	CORROSIVE
		DOT SKIN CORROSION – RABBIT (4 HR EXP)	NON-CORROSIVE
	PHOSPHORIC ACID 85%		

		ORAL – RAT – LD50	3,500 mg/kg SLIGHTLY TOXIC
		DERMAL – RABBIT – LD50	>1,260 mg/kg SLIGHTLY TOXIC
		EYE IRRITATION – RABBIT (24 HR EXP)	CORROSIVE
		SKIN IRRITATION – RABBIT (24 HR EXP)	CORROSIVE
		DOT SKIN CORROSION- RABBIT (4 HR EXP)	NON-CORROSIVE
THE RESULTS OF SINGLE EXPOSURE TESTS INDICATES THAT THESE CONCENTRATIONS OF PHOSPHORIC ACID ARE SLIGHTLY TOXIC ORALLY AND NO MORE THAN SLIGHTLY TOXIC AFTER SKIN APPLICATION. FOLLOWING A 24 HOUR EXPOSURE, IRREVERSIBLE EYE AND SKIN DAMAGE OCCURRED AT ALL TESTED CONCENTRATIONS OF PHOSPHORIC ACID.			
PHOSPHORIC ACID HAS PRODUCED NO GENETIC CHANGES IN STANDARDS TESTS USING BACTERIAL CELLS.			
ADDITIONAL INFORMATION:			
THIS MATERIAL IS SEVERELY CORROSIVE TO STEEL BASED ON DOT 49 CFR CRITERIA.			
PHOSPHORIC ACID HAS A LOW VAPOR PRESSURE AT ROOM TEMPERATURE AND IS NOT EXPECTED TO PRESENT A SIGNIFICANT INHALATION HAZARD UNDER AMBIENT CONDITIONS. PHOSPHORIC ACID CAN, HOWEVER, BE IRRITATING TO THE RESPIRATORY TRACT IF INHALED AS A MIST OR IF THE MATERIAL IS VAPORIZED. THE AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH) HAS ESTABLISHED A THRESHOLD LIMIT VALUE (TLV) FOR PHOSPHORIC ACID. FOR FURTHER INFORMATION ON THIS MATERIAL, PLEASE REFER TO THE CURRENT EDITION OF THE DOCUMENTATION OF THE THRESHOLD LIMIT VALUES AND BIOLOGICAL EXPOSURE INDICES.			

SECTION XII ECOLOGICAL INFORMATION

ENVIRONMENTAL TOXICITY	PHOSPHORIC ACID IS PRACTICALLY NONTOXIC TO ONE SPECIES OF FRESHWATER FISH. NO TOXICITY DATA WAS LOCATED FOR OTHER FRESHWATER SPECIES, ALGAE, OR DAPHNIA MAGNA IN A SEARCH OF THE AVAILABLE SCIENTIFIC LITERATURE.
	THE FOLLOWING DATA HAVE BEEN CLASSIFIED USING THE CRITERIA ADOPTED BY THE EUROPEAN ECONOMIC COMMUNITY (EEC) FOR AQUATIC ORGANISM TOXICITY.
	96-HR – LC50 MOSQUITO FISH: 138 mg/l PRACTICALLY NONTOXIC
ENVIRONMENTAL FATE	NON SPECIFIC BIODEGRADATION TEST DATA WAS LOCATED IN A SEARCH OF THE AVAILABLE SCIENTIFIC LITERATURE. IT WAS REPORTED IN THE LITERATURE THAT WHILE ACIDITY OF THIS MATERIAL MAY BE REDUCED READILY IN NATURAL WATER, THE PHOSPHATE MAY PERSIST INDEFINITELY.

SECTION XIII DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: IF POSSIBLE, PUMP TO CONTROLLED CONTAINMENT AREA. ABSORB ON CLAY OR SAND. DISPOSE OF IN COMPLIANCE WITH EPA, FEDERAL, STATE, AND LOCAL REGULATIONS. TREATMENT, TRANSPORTATION AND DISPOSAL MUST BE IN COMPLIANCE WITH EPA FEDERAL, STATE, AND LOCAL REGULATIONS UNDER THE RESOURCES CONSERVATION AND RECOVERY ACT (RCRA, 40 CFR 261). TYPICALLY CONTROLLED BURNING, INCINERATION OR APPROVED LAND FILL SITES ARE AVAILABLE.

SECTION XIV TRANSPORTATION INFORMATION

Governing Body	Mode	UN Number	Proper Shipping Name	Hazard Class	Packing Group
DOT	GROUND (NON BULK)	NON REGULATED	NON REGULATED	NON REGULATED	NON REGULATED
DOT	GROUND (BULK)	1805	CORROSIVE LIQUID, ACIDIC, INORGANIC N.O.S. (PHOSPHORIC ACID)	8, CORROSIVE	III
IATA	AIR	1805	CORROSIVE LIQUID, ACIDIC, INORGANIC N.O.S. (PHOSPHORIC ACID)	8, CORROSIVE	III
IMDG	OCEAN	1805	CORROSIVE LIQUID, ACIDIC, INORGANIC N.O.S. (PHOSPHORIC ACID)	8, CORROSIVE	III

SECTION XV REGULATORY INFORMATION

TSCA: THE SOLVENT PORTION OF THIS PRODUCT IS LISTED ON THE TSCA INVENTORY AS A UVCB (UNKNOWN, VARIABLE COMPOSITION OR BIOLOGICAL) CHEMICAL AT CAS REGISTRY NUMBER 7664-38-2 (PHOSPHORIC ACID)
CERCLA: IF THE REPORTABLE QUANTITY OF THIS PRODUCT IS ACCIDENTALLY SPILLED, THE INCIDENT IS SUBJECT TO THE PROVISIONS OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA) AND MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER BY CALLING 1-800-424-8802 or 202-426-2675.
THE REPORTABLE SPILL QUANTITY (RQ) OF THIS PRODUCT IS 5,000 POUNDS
SARA TITLE III: UNDER THE PROVISIONS OF TITLE III, SECTIONS 311/312 OF THE SUPERFUND AMENDMENTS AND RE-AUTHORIZATION ACT, THIS PRODUCT IS CLASSIFIED INTO THE FOLLOWING HAZARD CATEGORIES: IMMEDIATE
ADDITIONAL REGULATORY CONCERNS: (FEDERAL, FDA, USDA, CPSC, STATE, OTHER)
FEDERAL / FDA / USDA:
MARINE POLLUTANTS: NO, THIS PRODUCT DOES NOT CONTAIN A MATERIAL ON THE MARINE POLLUTANTS TABLE (HMT 172.101 Appendix B).
CERCLA / RQ: 5000 THIS PRODUCT CONTAINS A MATERIAL ON THE RQ TABLE (HMT 172.101 Appendix A): PHOSPHORIC ACID.
TSCA: IS THIS PRODUCT, OR ALL ITS INGREDIENTS, BEING CERTIFIED FOR INCLUSION ON THE TOXIC SUBSTANCES CONTROL ACT INVENTORY OF CHEMICAL SUBSTANCES? YES

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HMIS HAZARD RATINGS: THIS INFORMATION IS FOR PEOPLE TRAINED IN: NATIONAL PAINT AND COATINGS ASSOCIATIONS (NPCA) HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 704) IDENTIFICATION OF FIRE HAZARDS OF MATERIALS	KEY 4 -- SEVERE		
CERTI-VEX RUST REMOVER	NPCA-HMIS	NFPA 704	3 -- SERIOUS
HEALTH	3	3	2 -- MODERATE
FLAMMABILITY	0	0	1 -- SLIGHT
REACTIVITY	0	0	0 -- MINIMAL