

Section 1:	SUBS	TANCE IDENTIFICATION AND SUPPLIER
Product n		Phosphoric Acid 85%
Other Nan		Orthophosphoric acid
Chemical formula:		H ₃ PO ₄
Recomme Use:	ended	Industrial solvent, cleaner, degreaser. Plating chemicals. Food additive. Chemical intermediate. Fertilizer.
Company Identificat Address:	ion:	UCN CHEMICAL Limited Korkut Reis Mah Lale Cad 13/7 Cankaya Ankara
Customer Centre:		
Section 2:	HAZA	RD IDENTIFICATION
Emerge al ncy Overvie w:	Store , regior Do not	es severe skin burns and eye damage. locked up. Dispose of content and/or container in accordance with loc nal, national, and/or international regulations. breathe dust, fume, gas, mist, vapours and/or spray. Wear protective c, clothing and eye/face protection. Was thoroughly after handling.
		/ery hazardous in case of skin contact (irritant), of eye contact Health of ingestion, . Hazardous in case of skin contact (corrosive, permeator), of eye contact (corrosive). Slightly hazardous in case of inhalation (lung sensitizer). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe



	over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.	
Routes of entry:	Skin, eyes and inhalation.	
Target organs:	Blood, liver, skin, eyes and bone marrow.	
Skin contact:	Substance is corrosive. May cause severe burns and ulceration.	
Eye contact:	Contact causes eye irritation, may cause burns or blindness	
Inhalation:	Inhalation can cause irritation or corrosive burns to the upper respiratory system, including nose, mouth, and throat. Lung irritation, pulmonary edema, and chemical pneumonitis can also occur.	
Ingestion:	Ingestion causes irritation and can cause corrosive burns to mouth, throat and stomach resulting in hemorrhaging and permanent damage. Can be fatal if swallowed.	
Chronic Exposure:	Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.	
Explanatio n of carcinoge nicity:	This product does not contain any ingredient designated by IARC, NTP, A CGIH or OSHA as probable or suspected human carcinogens.	
Medical conditions aggravate d by exposure:	In persons with impaired pulmonary function, especially those with obstructive airway diseases, the breathing of phosphoric acid dust or mist might cause exacerbation of symptoms due to its irritant properties. Phosphoric acid mist or solutions may cause dermatitis	



Section 3: C	compos	ition Information		
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INGREDIEN	т	CAS No.		CONTENT
Phosphoric Acid		7664-38-2		85-88
Water		7732-18-5		12-15
Section 4: F		D MEASURES		
Inhalation:	Sympto shortne	oms include burning, c	hoking, co ne or naus	action on mucous membranes. bughing, wheezing, laryngitis, ea. Move casualty to fresh air if symptoms persist.
Ingestion: a	Do Not Induce Vomiting! Causes corrosive burns of the mouth, gullet a gastrointestinal tract if swallowed. Symptoms include burning, choking nausea, vomiting and severe pain. Wash out mouth with water and give a glass of water or milk. Get medical attention immediately.		ptoms include burning, choking, shout mouth with water and give	
Skin:	Symptoms include burning, itching, redness, inflammation and/or swelling of exposed tissues. Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention if necessary.			
Eye:				yes. Rinse with plenty of water nedical attention immediately.
Advice to Doctor:	ss in th Consid	e patient.	en to the p	erved signs and symptoms of distre ossibility that overexposure to mate occurred.
Section 5: F	IREFIG	HTING MEASURES		
Flash Point	Not a	pplicable		



Combustion Products:	Non-combustible, substance itself does not burn but may decompose up on heating to produce corrosive and/or toxic fumes.	
Extinguishin g Media:	Product is not flammable. Use appropriate media for adjacent fire. Cool containers with water, keep away from common metals.	
	/ear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.	
HAZCHEM Code:	2R	
Section 6: A	CCIDENTAL RELEASE MEASURES	
Spills and Disposal:	Small spill: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: neutralize the residue with a dilute solution of sodium carbonate	
	Large spill: Corrosive liquid. Poisonous liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of sodium carbonate.	
Protective Clothing:	Put on appropriate personal protective equipment (see section 8).	
Environm ental:	Prevent entry into waterways, sewers, basements or confined areas. Runoff from fire control or dilution water may cause pollution.	
Section 7: H	ANDLING AND STORAGE	
Handling:	Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product	



	residue and can be hazardous. Do not reuse container.
Storage:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
Other Informatio n:	
Section 8: E	XPOSURE CONTROL/PERSONAL PROTECTION
Exposure Limits:	1 mg/m ³
	Face shield. Full suit. Vapor respirator. Be sure to use an pproved/certified respirator or equivalent. Gloves. Boots. t:
	Provide exhaust ventilation or other engineering controls to keep the concentrations of vapors below their respective threshold limit Controls: e that eyewash stations and safety showers are proximal to the work-station location.
	not get in eyes or on skin or clothing.Wash thoroughly with soap and w er after handling and before eating, drinking, or using tobacco. Handle in accordance with good industrial hygiene and safety practice.
Section 9. P	HYSICAL AND CHEMICAL PROPERTIES
Appearan ce:	Colorless viscous liquid
Odour:	Odourless
Specific Gravity:	> 1.573



Bulk Density:	NDA	
pH:	< 1	
Solubility in Water:	Miscible	
Flash Point:	Not applicable	
Melting Point:	-17 to -21ºC (1.4 to -5.8 ºF)	
Other Informatio n:		
Section 10:	STABILITY AND REACTIVITY	
Stability:	The product is stable	
Hazardous Decompos ition Products:	Oxides of phosphorus	
Condition s to Avoid:	Store protected from moisture and heat	
Materials to Avoid:	Reactive with oxidizing agents, combustible materials, metals, alkalis.	
Section 11:	TOXICOLOGICAL INFORMATION	
ERMA Classificatio :	6.1D (oral), 6.1E (dermal), 8.1A, 8.2C, 8.3A	



Ingestion:		Would be expected to cause severe burning and pain in the mouth, throat and abdomen, vomiting, diarrhea. May cause perforation of the esophagus or stomach with vomiting, severe abdominal pain, collapse and death.
Inhalation:		Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting
Skin:		Severity of injury depends on the concentration and duration of exposure. Dilute solutions may cause moderate irritation. Concentrated solutions may cause pain and severe burns to the skin (based on animal information; no human information available).
Eye:		Severity of injury depends on the concentration and duration of exposure. Concentrated solutions cause immediate pain, severe burns and permanent corneal damage which may result in blindness. Dilute solutions or mists may cause irritation
Chronic Effects:		Prolonged exposure may result in decreased lung function and CNS depression. Prolonged and repeated exposure to dilute solutions may cause irritation, redness, pain and drying and cracking of the skin.
Other Information	n:	
Section 12	: EC	OLOGICAL INFORMATION
ERMA Classifica tion:	9.11	D (other), 9.3C
Ecotoxici ty:	Har	mful to aquatic life at low concentrations.
Section 13	: DIS	SPOSAL INFORMATION
		e of waste at an appropriate waste disposal facility according to cable laws and regulations. Neutralize with lime or other base. Collect



•	in appropriate containers. Dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations and product characteristics at time of disposal.
	Containers, if thoroughly cleaned, preferably by rinsing three times and andling the rinse water as waste residues, may be disposed of or recycled as non-hazardous waste. Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies before discharging or disposing of waste material.
Section 14	: TRANSPORT INFORMATION
UN Number:	1805
Proper Shipping Name:	PHOSPHORIC ACID, LIQUID
DG Class:	8
UN Packing Group:	11
Group.	

Federal and State Regulations: Connecticut hazardous material survey.: Phosphoric Acid Illinois toxic substances disclosure to employee act: Phosphoric acid Illinois chemical safety act: Phosphoric acid New York release reporting list: Phosphoric acid Rhode Island RTK hazardous substances: Phosphoric acid Pennsylvania RTK: Phosphoric acid Minnesota: Phosphoric acid Massachusetts RTK: Phosphoric acid Massachusetts spill list: Phosphoric acid New Jersey: Phosphoric acid New Jersey spill list: Phosphoric acid Louisiana spill reporting: Phosphoric acid California Director's list of



hazardous substances: Phosphoric acid TSCA 8(b) inventory: Phosphoric Acid; Water SARA 313 toxic chemical notification and release reporting: Phosphoric acid CERCLA: Hazardous substances.: Phosphoric acid: 5000 lbs. (2268 kg)

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada): CLASS E: Corrosive liquid.

DSCL (EEC):R34- Causes burns. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S45-In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Section 16: OTHER INFORMATION