

Phosphoric Acid :

Chemical Name						PHOSPHERIC ACID'		Chemical Classification		Inorganic acid	
Synonyms						Orthophosphoric acid		Trade Name			
Formula						H3PO4 C.A.S.NO.		7664-38 2 U.N. NO		2834/180 5	
Regulated Identification						Shipping Name Code/Label		Phosphoric acid, Ortho Corrosive, Class 8.		Hazchem No. 2 R	
						Hazardous Waste I.D. No		16			
Hazardous Ingredients						C.A.S.,No.		Hazardous Ingredients		C.A.S.,No.	
1. Phosphoric Acid (85%						7664-38-2		3,			
2.								4.			
2. PHYSICAL AND CHEMICAL DATA											
Boiling Range/Point JC						300 °C (decomposes)		Appearance		Colour	
Melting/ Freezing Point °C						42.4 °C		Vapour Pressure 35 °C		Odour Pleasant	
Vapour Density (Air - 1)						Not available		Solubility in water at 30° C		Others Soluble in Alcohol	
Specific Gravity Water = 1						1.892 at 25 °C		PH			
3. FIRE AND EXPLOSION HAZARD DATA											
Flammability		No		LEL		Not Pertinent		Flash Point		Not Pertinent	
TDG Flammability		N.A		UEL		Not Pertinent		Flash Point		Not Pertinent	
Explosion Sensitivity to Impact		Stable		Explosion Sensitivity to Static Electricity		Data not available		Hazardous Combustion products		Emits toxic fumes of POx	
Hazardous Polymerisation		Will not occur		Explosive Material		No		Corrosive Material		Yes	
Combustible Liquid		No									
Flammable Material		No		Oxidiser		NO				Others	
4. REACTIVITY DATA :											
Chemical Stability						Stable					
Incompatibility with other Material						strong caustics, most metals					
Reactivity						Potentially violent reaction with Sodium tetrahydroborate					
Hazardous Reaction Products						Reacts with chlorides + stainless steel to form explosive hydrogen gas. Forms explosive mixtures with Nitromethane.					
5. HEALTH HAZARDS DATA											
Routes of Entry						Inhalation, Ingestion, Eyes & Skin					
Effects of Exposure/Symptoms						Burns on mouth and lips. Produces sour acid taste, severe gastrointestinal irritation, nausea, vomiting, bloody diarrhea, difficulty in swallowing, severe abdominal pains, thirst, acidemia, difficult breathing, convulsions, collapse, shock, and death,					
Emergency Treatment						Ingestion : Do not induce vomiting. Give water, milk or vegetable oil. Skin and Eyes : Flush with water for at least 15 mins. Seek medical aid.					
TLV (ACGIH) Permissible		0.25 ppm		1 rag/M: <		STEL		0.75 ppm		3 M-1 rag/	
		0.25		1		Odour		not		Not	

6. PREVENTIVE MEASURES :		
Personal Protective Equipment	Avoid contact with liquid or vapours. Provide face shield, rubber hand gloves, protective overclothing and shoes.	
Handling and Storage Precautions	Store in well ventilated area, away from active? Metals	
7. EMERGENCY AND FIRST AID MEASURE :		
FIRE	FIRE EXTINGUISHING MEDIA	Not combustible
FIRE	Special Procedures	Keep the containers cool by spraying water if exposed to heat or flame-
	Unusual Hazards	Flammable gas in contact with metals.
EXPOSURE	First Aid Measures	If ingested, do not induce vomiting, give milk, water and vegetable oil. If skin and eyes are affected flush with TI plenty of water. Seek medical aid immediately.
	Antidotes/Dosages	Not available
SPILLS	Steps to be taken	Neutralise with alkali and dilute and drench with water.
	Waste Disposal Method	Seal all waste in vapour tight plastic bags for eventual disposal.
8. ADDITIONAL INFORMATION /REFERENCES :		
The substance is used to manufacture fertilizers, detergents, food beverages and for water treatment		
9. MANUFACTURE/SUPPLIERS DATA :		
Name of Firm	Contact Person in Emergency	Shift In Charge
Gujarat Alkalies and Chemicals Ltd.,		
Mailing Address P.O. Dahej Dist, Bharuch	Local Bodies involved	
Telephone/Telex Nos. 56315-16-17	Standard Packing	
Telephonic Address	Tremcard Detail/R/f.	
	Others	
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