



# MATERIAL SAFETY DATA SHEET

## Phosphoric acid

### Section 1 - Chemical Product and Company Identification

MSDS Name:	Phosphoric acid
Synonyms:	Orthophosphoric acid

Company Identification:	Hazel Mercantile Limited
Company Identification: (INDIA)	701/712 A, Embassy Centre, Nariman Point, Mumbai - 400 021.
For information in the INDIA, call:	+91 - 22 - 2282 4444 (50 Lines)

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
7664-38-2	Phosphoric acid	85	231-633-2

Hazard Symbols:	C
Risk Phrases:	34

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Causes burns.

#### Potential Health Effects

Eye:	Causes eye burns.
Skin:	Causes skin burns.
Ingestion:	Causes gastrointestinal tract burns.
Inhalation:	Causes chemical burns to the respiratory tract.
Chronic:	

### Section 4 - First Aid Measures

Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin:	Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion:	Do not induce vomiting. Get medical aid immediately.
Inhalation:	Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Notes to Physician:	Treat symptomatically and supportively.



## Section 5 - Fire Fighting Measures

<b>General Information:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible.
<b>Extinguishing Media:</b>	Use foam, dry chemical, or carbon dioxide.

## Section 6 - Accidental Release Measures

<b>General Information:</b>	Use proper personal protective equipment as indicated in Section 8.
<b>Spills/Leaks:</b>	Vacuum or sweep up material and place into a suitable disposal container. Do not let this chemical enter the environment.

## Section 7 - Handling and Storage

<b>Handling:</b>	Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use only in a chemical fume hood.
<b>Storage:</b>	Store in a cool, dry place. Store in a tightly closed container. Corrosives area.

## Section 8 - Exposure Controls, Personal Protection

<b>Engineering Controls:</b>	
	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.
<b>Exposure Limits</b>	
	CAS# 7664-38-2:
	United Kingdom, WEL - TWA: 1 mg/m3 TWA United Kingdom, WEL - STEL: 2 mg/m3 STEL
	United States OSHA: 1 mg/m3 TWA
	Belgium - TWA: 1 mg/m3 VLE Belgium - STEL: 2 mg/m3 VLE
	France - VME: 0.2 ppm VME; 1 mg/m3 VME France - VLE: 0.5 ppm VLE; 2 mg/m3 VLE
	Germany: 1 mg/m3 TWA
	Japan: 1 mg/m3 OEL
	Malaysia: 1 mg/m3 TWA
	Netherlands: 0.5 ppm STEL; 2 mg/m3 STEL Netherlands: 0.2 ppm MAC; 1 mg/m3 MAC
	Spain: 1 mg/m3 VLA-ED Spain: 2 mg/m3 VLA-EC

### Personal Protective Equipment

<b>Eyes:</b>	Wear chemical splash goggles.
<b>Skin:</b>	Wear appropriate protective gloves to prevent skin exposure.
<b>Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.
<b>Respirators:</b>	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.



### Section 9 - Physical and Chemical Properties

<b>Physical State:</b>	Crystalline powder
<b>Color:</b>	white
<b>Odor:</b>	Not available
<b>pH:</b>	Not available
<b>Vapor Pressure:</b>	0.03hPa @20 deg C
<b>Viscosity:</b>	Not available
<b>Boiling Point:</b>	Not available
<b>Freezing/Melting Point:</b>	42 deg C ( 107.60°F)
<b>Autoignition Temperature:</b>	Not available
<b>Flash Point:</b>	Not available
<b>Explosion Limits: Lower:</b>	Not available
<b>Explosion Limits: Upper:</b>	Not available
<b>Decomposition Temperature:</b>	Not available
<b>Solubility in water:</b>	Soluble
<b>Specific Gravity/Density:</b>	
<b>Molecular Formula:</b>	H3PO4
<b>Molecular Weight:</b>	98

### Section 10 - Stability and Reactivity

<b>Chemical Stability:</b>	Stable under normal temperatures and pressures. Hygroscopic: absorbs moisture or water from the air.
<b>Conditions to Avoid:</b>	Incompatible materials, metals, excess heat, exposure to moist air or water.
<b>Incompatibilities with Other Materials</b>	Strong oxidizing agents, Reacts with most common metals to produce hydrogen gas. Is corrosive to many materials including leather, rubber, and many organics..
<b>Hazardous Decomposition Products</b>	Phosphine, oxides of phosphorus, hydrogen gas.
<b>Hazardous Polymerization</b>	May occur.



### Section 11 - Toxicological Information

<b>RTECS#:</b>	CAS# 7664-38-2: TB6300000
<b>LD50/LC50:</b>	RTECS: <b>CAS# 7664-38-2:</b> Draize test, rabbit, eye: 119 mg Severe; Draize test, rabbit, skin: 595 mg/24H Severe; Inhalation, mouse: LC50 = 25.5 mg/m3; Inhalation, rat: LC50 = >850 mg/m3/1H; Inhalation, rat: LC50 = 25.5 mg/m3; Oral, mouse: LD50 = 1.25 gm/kg; Oral, rat: LD50 = 1530 mg/kg; Oral, rat: LD50 = 1.25 gm/kg; Skin, rabbit: LD50 = 2740 mg/kg;
<b>Carcinogenicity:</b>	Phosphoric acid - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
<b>Other:</b>	See actual entry in RTECS for complete information.

### Section 12 - Ecological Information

<b>Other:</b>	Do not empty into drains.
---------------	---------------------------

### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.
---

### Section 14 - Transport Information

	IATA	IMO	RID/ADR
<b>Shipping Name:</b>	PHOSPHORICACID, SOLID	PHOSPHORICACID, SOLID	PHOSPHORICACID, SOLID
<b>Hazard Class:</b>	8	8	8
<b>UN Number:</b>	3453	3453	3453
<b>Packing Group:</b>	III	III	III

USA RQ: CAS# 7664-38-2: 5000 lb final RQ; 2270 kg final RQ

### Section 15 - Regulatory Information

<b>European/International Regulations</b>
European Labeling in Accordance with EC Directives
Hazard Symbols: C
<b>Risk Phrases:</b>
➤ R 34 Causes burns.
<b>Safety Phrases:</b>
➤ S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
➤ S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
<b>WGK (Water Danger/Protection)</b>
➤ CAS# 7664-38-2: 1
<b>Canada</b>
➤ CAS# 7664-38-2 is listed on Canada's DSL List
<b>US Federal</b>
➤ TSCA
➤ CAS# 7664-38-2 is listed on the TSCA Inventory.



## Section 16 - Other Information

<b>MSDS Creation Date:</b>	October 15, 2007
<b>Revision #0 Date</b>	

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.*