

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Neutron<sup>®</sup>Pharmachemical Co.

Date of issue: 07/11/2014 Revision date: 12/21/2016

Supersedes: 07/02/2015

Version: 1.3

1.1. Identification	
Product form	: Substance
Substance name	: Phosphoric Acid, 85% w/w
Chemical name	: ortho-Phosphoric Acid
CAS No	: 7664-38-2
Product code	: 1.1360
Formula	: H3PO4
Synonyms	: orthophosphoric acid, conc=85% / Phosphoric acid, solid / phosphoric syrup, conc=85%
1.2. Relevant identified uses of the	substance or mixture and uses advised against
Use of the substance/mixture	: Food industry: additive Petrochemistry: Catalyst: auxiliary substance
	Pharmaceutical product: component
Recommended use	: Laboratory chemicals
Restrictions on use	: Not for food, drug or household use
1.3. Details of the supplier of the sa	
EUTRON PHARMACHEMICAL CO	
8, 9th Floor, Borjsaz Building, Azadi Ave, To 021-66906732-3 - F 021-66581408 <u>fo@neutronpharmachemical.com</u> - <u>ww.neutronpharmachemical.com</u>	Tehran, Iran.
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 125
SECTION 2: Hazard(s) identificat	tion
SECTION 2: Hazard(s) identificat 2.1. Classification of the substance	
2.1. Classification of the substance	H314
2.1. Classification of the substance GHS-US classification Skin corrosion/irritation Category 1B Serious eye damage/eye irritation Category Full text of H statements : see section 16	H314
2.1.       Classification of the substance         GHS-US classification         Skin corrosion/irritation Category 1B         Serious eye damage/eye irritation Category         Full text of H statements : see section 16         2.2.       Label elements	H314
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<ul> <li>2.1. Classification of the substance</li> <li>GHS-US classification</li> <li>Skin corrosion/irritation Category 1B</li> <li>Serious eye damage/eye irritation Category</li> <li>Full text of H statements : see section 16</li> <li>2.2. Label elements</li> <li>GHS-US labeling</li> <li>Hazard pictograms (GHS-US)</li> </ul>	$\begin{array}{c} \text{H} \\ $
2.1.       Classification of the substance         GHS-US classification         Skin corrosion/irritation Category 1B         Serious eye damage/eye irritation Category         Full text of H statements : see section 16         2.2.       Label elements         GHS-US labeling         Hazard pictograms (GHS-US)         Signal word (GHS-US)	H314 (1 H318 : GHS05 : Danger

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Other hazards not contributing to the classification	: None.		
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/Informatio	on on ingredients		
3.1. Substance			
Substance type	: Multi-constituent		
Name	Product identifier	%	GHS-US classification
Phosphoric Acid, 85% w/w (Main constituent)	(CAS No) 7664-38-2	100	Skin Corr. 1B, H314 Eye Dam. 1, H318
Full text of hazard classes and H-statements : se	ee section 16		
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	: Check the vital functions. Unconscious: arrest: artificial respiration or oxygen. Ca with labored breathing: half-seated. Vict Vomiting: prevent asphyxia/aspiration p warming up). Keep watching the victim. physical strain. Depending on the victim	ardiac arrest: perfori tim in shock: on his l neumonia. Prevent o Give psychological	m resuscitation. Victim conscious back with legs slightly raised. cooling by covering the victim (no aid. Keep the victim calm, avoid
First-aid measures after inhalation	: Remove the victim into fresh air. Respire		
First-aid measures after skin contact	: Wash immediately with lots of water (15 agents. Remove clothing while washing wounds with sterile bandage. Consult a victim to hospital.	. Do not remove clo	thing if it sticks to the skin. Cover
First-aid measures after eye contact	: Rinse immediately with plenty of water f victim to an ophthalmologist.	or 15 minutes. Do n	ot apply neutralizing agents. Take
First-aid measures after ingestion	<ul> <li>Rinse mouth with water. Immediately af vomiting. Do not give activated charcoal (www.big.be/antigif.htm). Take the conta doctor/medical service. Ingestion of larg chemical antidote. Doctor: gastric lavage</li> </ul>	I. Call Poison Inform ainer/vomit to the do ge quantities: immed	ation Centre ctor/hospital. Immediately consult a iately to hospital. Do not give
4.2. Most important symptoms and effect	cts, both acute and delayed		
Symptoms/injuries after inhalation	<ul> <li>Coughing. Dry/sore throat. Irritation of the membranes. FOLLOWING SYMPTOMS lung edema.</li> </ul>		
			1 2
Symptoms/injuries after skin contact	: Caustic burns/corrosion of the skin.		
Symptoms/injuries after eye contact	: Corrosion of the eye tissue.		
Symptoms/injuries after eye contact Symptoms/injuries after ingestion	<ul> <li>Corrosion of the eye tissue.</li> <li>Burns to the gastric/intestinal mucosa. ABSORPTION OF LARGE QUANTITIE</li> </ul>	S: Shock.	pain. Blood in vomit. AFTER
Symptoms/injuries after skin contact Symptoms/injuries after eye contact Symptoms/injuries after ingestion Chronic symptoms	<ul><li>Corrosion of the eye tissue.</li><li>Burns to the gastric/intestinal mucosa.</li></ul>	S: Shock.	pain. Blood in vomit. AFTER
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Symptoms/injuries after eye contact Symptoms/injuries after ingestion Chronic symptoms 4.3. Indication of any immediate medical	<ul> <li>Corrosion of the eye tissue.</li> <li>Burns to the gastric/intestinal mucosa. N ABSORPTION OF LARGE QUANTITIE</li> <li>ON CONTINUOUS/REPEATED EXPOSE</li> </ul>	S: Shock.	pain. Blood in vomit. AFTER
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Symptoms/injuries after eye contact Symptoms/injuries after ingestion Chronic symptoms 4.3. Indication of any immediate medical No additional information available SECTION 5: Firefighting measures 5.1. Extinguishing media	<ul> <li>Corrosion of the eye tissue.</li> <li>Burns to the gastric/intestinal mucosa. N ABSORPTION OF LARGE QUANTITIE</li> <li>ON CONTINUOUS/REPEATED EXPOSE</li> </ul>	S: Shock. SURE/CONTACT: D	pain. Blood in vomit. AFTER
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Symptoms/injuries after eye contact Symptoms/injuries after ingestion Chronic symptoms 4.3. Indication of any immediate medical No additional information available SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing media	<ul> <li>Corrosion of the eye tissue.</li> <li>Burns to the gastric/intestinal mucosa. N ABSORPTION OF LARGE QUANTITIE</li> <li>ON CONTINUOUS/REPEATED EXPOSE</li> <li>al attention and special treatment needed</li> <li>Adapt extinguishing media to the enviro</li> <li>No unsuitable extinguishing media know</li> </ul>	S: Shock. SURE/CONTACT: D nment.	pain. Blood in vomit. AFTER
Symptoms/injuries after eye contact Symptoms/injuries after ingestion Chronic symptoms 4.3. Indication of any immediate medical No additional information available SECTION 5: Firefighting measures	<ul> <li>Corrosion of the eye tissue.</li> <li>Burns to the gastric/intestinal mucosa. N ABSORPTION OF LARGE QUANTITIE</li> <li>ON CONTINUOUS/REPEATED EXPOSE</li> <li>al attention and special treatment needed</li> <li>Adapt extinguishing media to the enviro</li> <li>No unsuitable extinguishing media know</li> </ul>	S: Shock. SURE/CONTACT: D nment. vn.	pain. Blood in vomit. AFTER ry skin. Red skin.

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	: Reacts exothermically with water (moisture). Decomposes on exposure to temperature rise: release of toxic and corrosive gases/vapours (phosphorus oxides). Reacts on exposure to temperature rise with (some) metals: release of highly flammable gases/vapours (hydrogen). Violent exothermic reaction with (some) bases. Violent to explosive reaction with many compounds e.g.: with (strong) oxidizers and with (strong) reducers.		
5.3. Advice for firefighters			
Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: seal off low-lying areas. Exposure to fire/heat: have neighbourhood close doors and windows.		
Firefighting instructions	: Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.		
Protection during firefighting	Heat/fire exposure: compressed air/oxygen apparatus.		
SECTION 6: Accidental release measu	Ires		
6.1. Personal precautions, protective equi	pment and emergency procedures		
6.1.1. For non-emergency personnel			
Protective equipment	<ul> <li>Gloves. Face-shield. Corrosion-proof suit. Dust cloud production: compressed air/oxygen apparatus. See "Material-Handling" to select protective clothing.</li> </ul>		
Emergency procedures	: Mark the danger area. Prevent dust cloud formation. No naked flames. Wash contaminated clothes. Large spills/in confined spaces: consider evacuation. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.		
Measures in case of dust release	: In case of dust production: keep upwind. In case of dust production: consider evacuation. Dust production: have neighbourhood close doors and windows.		
6.1.2. For emergency responders			
Protective equipment	: Equip cleanup crew with proper protection.		
Emergency procedures	: Ventilate area.		
6.2. Environmental precautions			
Prevent soil and water pollution. Prevent spreading	g in sewers.		
6.3. Methods and material for containment	t and cleaning up		
For containment	: Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the solid spill. Hazardous reaction: measure explosive gas-air mixture. Reaction: dilute combustible gas/vapour with water curtain. Take account of toxic/corrosive precipitation water. Heat exposure: dilute toxic gas/vapour with water spray.		
Methods for cleaning up	Prevent dust cloud formation. Scoop solid spill into closing containers. See "Material-handling" for suitable container materials. Carefully collect the spill/leftovers. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.		
6.4. Reference to other sections			
See Heading 8. Exposure controls and personal pe	rotection.		
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling	: Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Keep the substance free from contamination. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep away from naked flames/heat. Observe strict hygiene. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.		
Hygiene measures	: Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.		
7.2. Conditions for safe storage, including	any incompatibilities		
	: Comply with applicable regulations.		
-	: Keep only in the original container in a cool, well ventilated place away from : incompatible materials. Keep container closed when not in use.		
Incompatible products	: Strong bases. Strong acids. metals.		
Incompatible materials	: Sources of ignition. Direct sunlight.		
	: > 20 °C		
Heat-ignition	: KEEP SUBSTANCE AWAY FROM: heat sources.		

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Prohibitions on mixed storage	: KEEP SUBSTANCE AWAY FROM: reducing agents. (strong) bases. metals. many substances.
Storage area	: Ventilation at floor level. Keep locked up. Unauthorized persons are not admitted. Meet the legal requirements.
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. corrosion-proof. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials	: SUITABLE MATERIAL: stainless steel. polyethylene. glass. MATERIAL TO AVOID: steel. aluminium. iron.

## SECTION 8: Exposure controls/personal protection

8.1. Control parameters				
Phosphoric Acid, 85% w/w (7664-38-2)				
OSHA	OSHA PEL (TWA) (mg/m³)	1 mg/m³		
IDLH         US IDLH (mg/m³)         1000 mg/m³				
NIOSH NIOSH REL (TWA) (mg/m <sup>3</sup> ) 1 mg/m <sup>3</sup>				
NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>		

8.2. Exposure controls	
Appropriate engineering controls	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide local exhaust or general room ventilation.
Personal protective equipment	: Safety glasses. Gloves. Protective clothing. Face shield.
Materials for protective clothing	: GIVE EXCELLENT RESISTANCE: butyl rubber. natural rubber. neoprene. nitrile rubber. polyethylene. viton. PVC. GIVE POOR RESISTANCE: PVA.
Hand protection	: Gloves.
Eye protection	: Face shield. In case of dust production: protective goggles.
Skin and body protection	: Corrosion-proof clothing. In case of dust production: head/neck protection.
Respiratory protection	: Dust production: dust mask with filter type P3.
Other information	: Do not eat, drink or smoke during use.

### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and	I chemical properties
Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Color	: Colourless
Odor	: Odorless
Odor threshold	: No data available
рН	: No data available
Melting point	: 21 °C
Freezing point	: No data available
Boiling point	: 158 °C
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: 2.2 hPa (20 °C)
Relative vapor density at 20 °C	: No data available
Relative density	: 1.7
Specific gravity / density	: 1685 kg/m³
Molecular mass	: 98 g/mol
Solubility	: Soluble in ethanol. Water: Complete

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Log Pow	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: Not applicable.
Oxidizing properties	: None.
9.2. Other information	
Minimum ignition energy	: Not applicable
VOC content	: Not applicable
Other properties	: Substance has acid reaction.

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Reacts exothermically with water (moisture). Decomposes on exposure to temperature rise: release of toxic and corrosive gases/vapours (phosphorus oxides). Reacts on exposure to temperature rise with (some) metals: release of highly flammable gases/vapours (hydrogen). Violent exothermic reaction with (some) bases. Violent to explosive reaction with many compounds e.g.: with (strong) oxidizers and with (strong) reducers.

#### 10.2. **Chemical stability**

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

### Not established.

#### 10.4. **Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

10.5. **Incompatible materials** 

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Phosphorus oxides. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapors.

## **SECTION 11: Toxicological information**

11.1. Information on toxicological effects

Likely routes of exposure Acute toxicity		Skin and eye contact Not classified
,	-	
Skin corrosion/irritation		Causes severe skin burns and eye damage.
Serious eye damage/irritation	:	Causes serious eye damage.
Respiratory or skin sensitization	:	Not classified
Germ cell mutagenicity	:	Not classified
		Based on available data, the classification criteria are not met
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
		Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	:	Not classified
Specific target organ toxicity (repeated exposure)	:	Not classified
Aspiration hazard	:	Not classified
Potential Adverse human health effects and symptoms	:	Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	:	Coughing. Dry/sore throat. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. FOLLOWING SYMPTOMS MAY APPEAR LATER: Respiratory difficulties. Risk of lung edema.
Symptoms/injuries after skin contact	:	Caustic burns/corrosion of the skin.
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cording to Federal Register / Vol. 77, No. 58 / Monday,	
Symptoms/injuries after eye contact	: Corrosion of the eye tissue.
Symptoms/injuries after ingestion	: Burns to the gastric/intestinal mucosa. Nausea. Abdominal pain. Blood in vomit. AFTER ABSORPTION OF LARGE QUANTITIES: Shock.
Chronic symptoms	: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Dry skin. Red skin.
SECTION 12: Ecological information	n en
12.1. Toxicity	
Ecology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). Air pollutant.
Ecology - water	: Mild water pollutant (surface water). May cause eutrophication. Toxic to plankton. Slightly harmful to bacteria. Slightly harmful to aquatic organisms. pH shift.
Phosphoric Acid, 85% w/w (7664-38-2)	
LC50 fish 1	138 mg/l (LC50)
12.2. Persistence and degradability	
Phosphoric Acid, 85% w/w (7664-38-2)	
Persistence and degradability	Biodegradability: not applicable. No test data on mobility of the components available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
12.3. Bioaccumulative potential	
Phosphoric Acid, 85% w/w (7664-38-2)	
Bioaccumulative potential	Not bioaccumulative.
12.4. Mobility in soil	
No additional information available	
No additional information available	: Avoid release to the environment.
No additional information available           12.5.         Other adverse effects           Other information         Image: Comparison of the second secon	
No additional information available 12.5. Other adverse effects	
No additional information available 12.5. Other adverse effects Other information SECTION 13: Disposal consideration 13.1. Waste treatment methods	
No additional information available 12.5. Other adverse effects Other information SECTION 13: Disposal consideration	<ul> <li>Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse. Remove for physico-chemical/biological</li> </ul>
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Hazard labels (DOT)	: 8 - Corrosive
	CORROSIVE 8
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Special Provisions (49 CFR 172.102)	<ul> <li>A7 - Steel packaging must be corrosion-resistant or have protection against corrosion. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</li> <li>N34 - Aluminum construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material. T4 - 2.65 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.
SECTION 15: Regulatory information	
15.1. US Federal regulations	

Torn of Fourier Ogalations			
Phosphoric Acid, 85% w/w (7664-38-2)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporing requirements of the United States SARA Section 313			
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb		

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations		
CANADA		
Phosphoric Acid, 85% w/w (7664-38-2)		
Listed on the Canadian DSL (Domestic Substances List)		
WHMIS Classification	Class E - Corrosive Material	

### **EU-Regulations**

No additional information available

### National regulations

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Safety Data Sheet

SECTION 16: Other information		
Revision date	: 12/21/2016	
Other information	: None.	
Full text of H-phrases: see section 16:		
H314	Causes severe skin burns and eye damage	
H318	Causes serious eye damage	
NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.	
NFPA fire hazard	: 0 - Materials that will not burn.	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	
HMIS III Rating		
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given	
Flammability	: 0 Minimal Hazard - Materials that will not burn	
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.	
Personal protection	: H	
SDS US LabChem	H - Splash goggles, Gloves, Synthetic apron, Vapor respirator	
Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.		