

1. IDENTIFICATION

Trade Name: P-40 Acid Cleaner

Chemical Name & Synonyms:

Emergency telephone number: CHEMTREC (800) 424-9300 Poison Control: 1-800-222-1222

2. Hazards Identification

Classification: Corrosive Regulation (EC) No 1272/2008 [CLP/GHS] Skin Corr 1B; H314;

Signal Word: Danger

Hazard Statements:

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.



GHS – Classification

Skin corrosion/irritation Category 1A

Serious eye damage/eye irritation Category 1

Physical Hazards

Corrosive to metals Category 1

Precautionary Statements:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P101 If medical advice is needed, have product container or label at hand.

P273 Avoid release to the environment.

P501 - Dispose of contents/ container to an approved waste disposal plant

3. Composition / Information on Ingredients

Chemical Name	CAS No	Weight-%
Orthophosphoric acid	7664-38-2	40%-60%

4.1 First Aid Measures

General If in doubt, seek medical advice.

Inhalation Fresh air and rest. Rinse nose and mouth with water. Get medical attention if any discomfort continues. For breathing difficulties oxygen may be necessary.

Skin contact Remove contaminated clothing. Flush skin thoroughly with water. Important to remove the substance from the skin immediately. Get medical attention. Chemical burns must be treated by a physician. Wash contaminated clothes before reuse.

Eye contact Promptly rinse eyes with plenty of water (tempered at 20-30°C) for at least 15 minutes. Remove contact lenses and open eyes wide apart. Immediately consult a doctor. Transport to physician. Keep on flushing during transport.

Ingestion DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Drink a few glasses of water or milk. Do not give victim anything to drink if he is unconscious. Immediately consult a doctor. Transport to hospital. Bring the safety data sheet.

4.2. Most important symptoms and effects, both acute and delayed

Information for health personnel Treat Symptomatically.

Acute symptoms and effects Corrosive. Forms blisters and can cause ulceration. Corrosive to the eyes, danger of vision impairment / blindness, burning nose, chemical burns to the skin. Causes burns if swallowed. Causes burning sensation in the mouth, throat and esophagus. May cause serious permanent damage. Inhalation: May cause chemical burns to the respiratory tract.

4.3. Indication of any immediate medical attention and special treatment needed

Other Information Splashes in the eyes and ingestion of more than an insignificant amount requires immediate medical attention. Chemical burns of the skin must be treated as burns

5. Fire-fighting Measures

Flammable Properties:

Non-flammable, but may cause fire due to heat of decomposition reaction.

Hazardous combustion products Oxides of phosphorous (PO_x). Phosphoric acid mist.

Explosive Properties:

No information available

Suitable Extinguishing Media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable Extinguishing Media:

No information available

Specific Hazards Arising from the Chemical:

The product causes burns of eyes, skin and mucous membranes; Thermal decomposition can lead to release of irritating and toxic gases and vapors; In the event of fire and/or explosion do not breathe vapors/smoke.

Protective Equipment and Precautions for Firefighters:

In the event of a fire, wear full protective clothing and MSHA/NIOSH (approved or equivalent) self-contained breathing apparatus with full facepiece operated in the pressure-demand or other positive pressure mode. Avoid water streams into concentrated product, as the dilution reaction generates heat.

6. Accidental Release Measures

Personal Precautions: Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

Environmental Precautions: Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods for Cleaning Up: Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. Dam up. After cleaning, flush away traces with water.

Other Information: Dilution of this product may generate significant amounts of heat.

7. Handling and Storage

Advice on Safe Handling: Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Use only with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment with acid gas or organic vapor cartridges. Use only with adequate ventilation and in closed systems.

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Incompatible Materials: Strong bases; Oxidizing agents

8. Exposure Controls / Personal Protection

Chemical Name

Phosphoric acid	7664-38-2		8 h.: 1 mg/m3
			EC no.: 231-633-2

Engineering Controls: Ensure adequate ventilation, especially in confined areas

Personal protective equipment (PPE)

Eye/Face Protection: Tight sealing safety goggles. Face protection shield. In case of insufficient ventilation, wear suitable respiratory equipment with acid gas or organic vapor cartridges.

Body Protection: Suitable protective clothing. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Check chemical resistance for the glove/boot material and the chemical handled.

General Hygiene Considerations:

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance:	Colorless to light yellow odorless Liquid
pH:	>1.1
Specific Gravity:	1.23
Water Solubility:	Completely soluble
Melt/FreezePoint:	Not determined- similar to water
Boiling Point:	Not determined-similar to water

Flammability: N/A
Flash Point: N/A
Vapor density: N/A

10. Stability and Reactivity

Stability: Stable under normal conditions of use and storage

Reactivity: May be corrosive to metals

Conditions to Avoid: Contact with incompatible materials

Incompatible Materials: Alkalies, most metals

Hazardous Decomposition Products:

Thermal decomposition can lead to release of irritating and toxic gases and vapors, including sulfur oxides and hydrogen gas.

Possibility of Hazardous Reactions: None under normal processing

11. Toxicological Information

Component: Sulfuric Acid CAS 7664-93-9	
Acute Oral Toxicity	LD50 Rat 1530mg/kg estimated
Acute inhalation toxicity	No data available
Acute Dermal Toxicity	LD50 2740 mg/kg Rabbit
Eye irritation	Corrosive. Immediate first aid is necessary. Risk of serious damage to eyes. Risk of permanent corneal damage, loss of sight and blindness.
Target Organ Systemic Toxicant -Single exposure	May cause respiratory irritation.
Target Organ Systemic Toxicant - Repeated exposure	No data available
Skin corrosion/irritation:	Causes severe skin burns and eye damage.
Inhalation	Vapours are corrosive. After 24-36 hours, injured persons may develop serious shortness of breath and lung oedema.
Respiratory or skin sensitization:	This product is not expected to cause skin sensitization.
Reproductive toxicity:	This product is not expected to cause reproductive or developmental effects.
Ingestion	Causes burns if swallowed. Causes burning sensation in the mouth, throat and esophagus. May cause serious permanent damage. Risk of perforation of the stomach if there has been swallowed large amounts.
Carcinogenicity	None of the substances mentioned in section 3 is considered as carcinogenic according to current labelling rules
Aspiration hazard:	No data available
Germ cell mutagenicity:	None of the substances mentioned in section 3 is considered as carcinogenic according to current labelling rules.

12. Ecological Information

Component: Sulfuric Acid CAS 7664-93-9

EcoToxicity	The product is not classified as dangerous for the environment. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms. Evaluate the necessity of neutralization.
Toxicity, Fish	No data available
Toxicity, invertebrates	No data available
Toxicity, Algae	No data available
Bioaccumulation	Product is not expected to be bioaccumulative
Mobility	The product is miscible with water. May spread in water systems.
Biodegradability	No data available
Biochemical OxygenDemand (BOD)	No data available
Other adverse effects:	Acids cause decreased pH values in the water. A low pH value harms aquatic organisms. Do not allow to enter into sewer, water system or soil.

13. Disposal Considerations

Waste from Residues/Unused Products:

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. May be reacted out with sodium bicarbonate or sodium carbonate to a neutral pH and then discharged safely.

Concentrated product may be soaked up with absorbent material and landfilled in accordance with local, state, and federal regulations.

P501 Dispose of contents/container in accordance with local/state/federal regulations

Contaminated Packaging:

Do not reuse container for potable / food contact. Wash and rinse thoroughly before reuse / recycling

14. Transport information (USDOT):

Proper shipping Name: PHOSPHORIC ACID, SOLUTION
Hazard Class: 8
UN/ID No UN1805
Packing Group PG III
Reportable Quantity (RQ) 6,667 lbs (calculated)



15. Regulatory Information

All of the components in the product are on the following Inventory lists: TSCA (United States);, Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), South Korea (KECL);, China (IECSC), Philippines (PICCS), This product contains a substance not listed on international inventories - it is for research and development use only.

Restrictions – REACH Title VII: No Data

CERCLA: Listed, Sulfuric Acid (CAS 7664-93-9)

CERCLA Hazardous Substances Reportable Quantity: 1000 lb concentrated, 6,667 lb at this dilution.

SAFETY DATA SHEET (GHS Format)

Also available for download at:
<http://www.WalterLouis.com/MSDS/>

SARA 302 Extremely Hazardous Substances EPCRA RQ

SARA 302 Extremely Hazardous Substances TPQ

SARA 313 TRI Reporting

SARA 311/312 Hazard Categories

Acute health hazard Yes

Chronic health hazard No

Fire hazard No

Sudden release of pressure hazard No

Reactive hazard Yes

US Safe Drinking Water Act: Not Regulated

U.S. State Right-to-Know Regulations:

California Proposition 65: Sulfuric Acid is listed.

16. Other information

National Fire Protection Association (NFPA) Ratings:

NSF Certification: N/A

Same as CERCLA

Same as CERCLA

Same as CERCLA



This Safety Data Sheet compiled from information provided by the raw chemical product manufacturer.