

Suite 450 One North Shore Center 12 Federal Street Pittsburgh, PA 15212

Safety Data Sheet KR-06L

1. IDENTIFICATION

Product name

KR-06L

Description

Phosphoric acid solution

Product class

Specialty

Supplier address

Suite 450

One North Shore Center 12 Federal Street

Pittsburgh, PA 16212

Telephone numbers

Company Phone Number

(412) 321-9800

Emergency Telephone

CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

Hazard classification

Corrosive to Metals, Category 1

Skin Corrosion, Category 1

Serious Eye Damage, Category 1

Carcinogenicity, Category 1A (Inhalation)

Signal word

Danger

Hazard statements

May be corrosive to metals.

Causes severe skin burns and eye damage.

Causes serious eye damage. May cause cancer if inhaled.

Pictograms of related hazards





Precautionary statements

Prevention

Keep only in original packaging.

Wash skin thoroughly after handling.

Wear protective gloves, protective clothing, eye protection, and face protection.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Response

Absorb spillage to prevent material damage.

Wash contaminated clothing before reuse.

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately contact a POISON CENTER or health care provider.

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water or emergency shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately contact a POISON CENTER or health care provider.

IF exposed or concerned: Get medical attention.

Storage

Store in a corrosive-resistant container or container with a resistant inner liner. Store locked up.

Disposal

Dispose of contents and container in accordance with local, state, and federal regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Weight %
Phosphoric acid	7664-38-2	70–75

4. FIRST-AID MEASURES

Eye contact Immediately flush eyes with plenty of water for at least 15

minutes, lifting lower and upper eyelids occasionally to ensure complete rinsing. Remove contact lenses if present and easy to do, then resume rinsing. Get medical

attention immediately.

Skin contact Immediately remove all contaminated clothing. Rinse with

copious amounts of water; use an emergency shower if available. Wash contaminated clothing before reuse.

Ingestion If swallowed, DO NOT induce vomiting. Rinse mouth and

get emergency medical attention. Do not give anything by mouth unless instructed to do so by a poison center or

health care provider.

Inhalation If inhaled, move victim to fresh air. Seek emergency

medical attention if breathing is difficult; perform artificial

respiration if breathing stops.

Note to health care provider Esophageal corrosion may contraindicate the use of

gastric lavage and/or activated charcoal.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Use extinguishing media appropriate for the surrounding

fire.

Unsuitable extinguishing media No

No information available

Protective equipment and precautions for firefighters

Stay upwind of the fire. Full protective equipment including self-contained breathing apparatus should be

used. Use water to cool closed containers. Contain water

runoff if possible.

Specific hazards Reaction with metals may produce highly flammable

hydrogen gas.

Hazardous combustion products Phosphorous oxides, corrosive vapor

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions Evacuate the area of all non-essential personnel. Do not

touch spilled material without proper protective equipment. Ventilate the area and mitigate further release

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if it is safe to do so. Avoid contact with eyes.

Methods for clean-up

Small spills Contain spill and soak up with an inert absorbent material

and place residues in a properly labeled container for disposal. Avoid discharge into sewer or surface water.

<u>Large spills</u> Contain spill using trenches, diking, or absorption with an

inert material (i.e. sand or earth). Reclaim spilled material into recovery or salvage drums or tank truck for proper

disposal.

7. HANDLING AND STORAGE

Advice on safe handling Avoid contact with eyes, skin, and clothing. Avoid

breathing vapor or mist. Wash hands thoroughly after

handling.

Storage conditions Store in a cool, dry, well-ventilated area away from

incompatible materials. Keep containers closed when not

in use.

Suitable materials of

construction

Corrosion-resistant container; original container only is

recommended.

Unsuitable materials of

construction

Metals

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/face protection Chemical splash goggles, face shield

Skin protection Chemical-resistant gloves and body-covering clothing

Respiratory protection Observe published airborne exposure limits. NIOSH

approved respirator should be used in accordance with OSHA respiratory protection requirements (29 CFR

1910.134).

Engineering controls Adequate ventilation, eye-wash station, and emergency

shower

General hygiene considerations Do not eat, drink, or smoke while handling this product.

Chemical Name	OSHA PEL	ACGIH TLV
Phosphoric acid	1 mg/m³	.1 mg/m³; STEL: 3
		mg/m3

9. PHYSICAL AND CHEMICAL PROPERTIES

рH	<0.5
Appearance	Clear colorless syrupy liquid
Odor No odor	
Odor Threshold	No information available
Melting/freezing point	0.5°F (-17.5°C)

Initial boiling point/boiling range	275°F (135°C)
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	No information available
Vapor pressure	0.0285 mmHg @ 68°F (20°C)
Vapor density	No information available
VOC content	No information available
Specific gravity	1.560-1.590
Solubility	Complete
Partition coefficient n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available

10. STABILITY AND REACTIVITY

Chemical stability Stable under normal conditions of storage and handling.

Hazardous polymerization Polymerization will not occur.

Conditions to avoid Extreme temperatures, incompatibilities

Incompatibilities Strong bases, oxidizers

Hazardous decomposition No known no

products

No known non-thermal decomposition hazards.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure

Skin, eyes, ingestion

Acute toxicity

Phosphoric acid

Parameter	Result
LD ₅₀ , Oral (rat)	1,530 mg/kg
LD ₅₀ , Dermal (rabbit)	2,740 mg/kg
LC ₅₀ , Inhalation (rat)	850 mg/m³

Acute symptoms and effects

Eye Severe eye irritation with serious damage including, but

not limited to, tissue destruction, corneal opacification,

and temporary or permanent blindness.

Skin Skin irritation with or without pain, burning, itching,

redness, and swelling. Symptoms may be exacerbated by open wounds, excoriations, rashes, or other skin

breaches.

Ingestion Gastrointestinal distress with or without nausea, vomiting,

and diarrhea. May cause irritation or corrosion of the oral

and esophageal mucosa.

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Inhalation Upper respiratory irritation with or without cough, watering

of the eyes, and postnasal drip. Aspiration of liquid or vomit may cause severe respiratory distress, airway

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corrosion, and acute lung damage.

Reproductive effects

Teratogenicity

No information available No information available

Mutagenicity

No information available

Embryotoxicity

No information available

Sensitization to product

No information available

Synergistic products

No information available

Carcinogenicity

Mists from strong inorganic acids have been implicated in cancers of the larynx and lung. Inorganic acid mists have been categorized as carcinogenic to humans by the IARC

(Group 1).

Chronic

No information available

12. ECOLOGICAL INFORMATION

Aquatic toxicity

Phosphoric acid

Parameter	Result
96 hr LC ₅₀ , Bluegill sunfish	60 ppm
96 hr LC ₅₀ , Rainbow trout	87 ppm
48 hr EC ₅₀ , Daphnia magna	105 ppm

Persistence

No information available

Bioaccumulative potential

No information available

Mobility

No information available

13. DISPOSAL CONSIDERATIONS

Disposal

Dispose of in accordance with federal, state, and local

regulations.

RCRA status

As sold, discarded product would be considered a RCRA hazardous waste based on the corrosive characteristics.

The EPA hazardous waste number is D002.

14. TRANSPORT INFORMATION

US Department of Transportation (DOT)

UN Number

UN1805

Proper shipping name

Phosphoric acid solution

Primary hazard class/division 8

Secondary hazard

Packing group

None III

Label

Corrosive

15. REGULATORY INFORMATION

OSHA Hazard Communication

Status

Corrosive to Metals, Category 1

Skin Corrosion, Category 1

Serious Eye Damage, Category 1 Carcinogenicity, Category 1A (Inhalation)

EPA Registration Number

TSCA

Not applicable

The ingredients of this product are listed on the Toxic

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Substances Control Act (TSCA) Chemical Substances

Inventory.

CERCLA

EPA Hazardous Substances (40 CFR 302)

Chemical Name	Reportable Quantity (RQ)
Phosphoric acid	5,000 lb
Product (Notify the EPA of spills exceeding this amount.)	6,600 lb

SARA Title III (Sections 302, 311, 312, and 313)

Section 302 Extremely Hazardous Substances (40 CFR 355)

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	Chemical Name	CAS#	RQ	TPQ	
	None				

Section 311 and 312 Health and Physical Hazards

Immediate	Delayed	Fire	Pressure	Reactivity
Yes	No	No	No	No

Section 313 Toxic Chemicals (40 CFR 372)

Chemical Name	CAS Number	Percent by Weight
None		

16. OTHER INFORMATION

HMIS Ratings

Health—2; Flammability—0; Reactivity—1

NFPA Ratings

Health—2; Flammability—0; Reactivity—1

HMIS/NFPA Rating Scale Minimal—0; Slight—1; Moderate—2; Serious—3; Severe—4

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Version

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