

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

Safety Data Sheet KR-131SRL

1. IDENTIFICATION

Product name

KR-131SRL

Description

Product class

Supplier address

Suite 450

One North Shore Center

12 Federal Street

Pittsburgh, PA 15212

Telephone numbers

Company Phone Number

(412) 321-9800

Emergency Telephone

CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

Hazard classification

No information found

Signal word

None

Hazard statements

No information found

Pictograms of related hazards

None

Precautionary statements

Prevention

PrePrevention

Response

PreResponse

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Weight %
2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)	37971-36-1	1–10

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.

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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

No specific information—treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing media appropriate for the surrounding

fire.

Unsuitable extinguishing media

No information available

Protective equipment and precautions for firefighters

Exercise caution when fighting any chemical fire. A selfcontained breathing apparatus and protective clothing are essential. Use water to keep fire-exposed containers cool.

Specific hazards

No information available

Hazardous combustion products No information available

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 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.

Large spills

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 diagonal.

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

No information available

Unsuitable materials of

No information available

construction

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/face protection

Chemical splash goggles

Skin protection

Chemical-resistant gloves and body-covering clothing

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Respiratory protection Respiratory protection is not normally required. A

respirator is recommended if significant mists, vapors, or

aerosols are generated.

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
2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)	None established	None established

9. PHYSICAL AND CHEMICAL PROPERTIES

рН	No information available
Appearance	No information available
Odor	No information available
Odor Threshold	No information available
Melting/freezing point	No information available
Initial boiling point/boiling	No information available
range	
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability or	No information available
explosive limits	
Vapor pressure	No information available
Vapor density	No information available
VOC content	No information available
Specific gravity	No information available
Solubility	No information available
Partition coefficient	No information available
n-octanol/water	
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

No information available

Hazardous decomposition

No information available

products

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11. TOXICOLOGICAL INFORMATION

Likely routes of exposure

Skin, eyes, ingestion

Acute toxicity

2-Phosphono-1,2.4-butanetricarboxylic acid (PBTC)

Parameter	Result	
LD ₅₀ , Oral (rat)	>4,000 mg/kg	
LC ₅₀ , Inhalation (rat)	1,979 mg/m³/4hr	
Draize, Skin (rabbit)	Not irritating	
Draize, Eye (rabbit)	Moderately irritating	

Acute symptoms and effects

Eye Eye irritation with or without pain, burning, itching, redness,

discharge, and serious eye damage.

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.

Inhalation Upper respiratory irritation with or without cough, watering

of the eyes, and postnasal drip.

Reproductive effects

No information available

No information available

Teratogenicity

Mutagenicity

No information available

Embryotoxicity

No information available

Sensitization to product Synergistic products

No information available No information available

Carcinogenicity

No components have been identified as carcinogenic by

OSHA, NTP, or IARC.

Chronic

No information available

12. ECOLOGICAL INFORMATION

Aquatic toxicity

2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)

Parameter	Result
48 hr LC ₅₀ , Leuciscus idis	>500 mg/L
24 hr EC50, Daphnia magna	747 mg/L
48 hr LC0, Rainbow trout	3,440 mg/L
72 hr LC0, Leuciscus idus	>2,000 mg/L
14 day NOEC, Zebra fish	>1,042 mg/L
21 day LC ₅₀ , Daphnia magna	>1,071 mg/L

Persistence

No information available

Bioaccumulative potential

No information available

Mobility

No information available

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13. DISPOSAL CONSIDERATIONS

Disposal Dispose of in accordance with federal, state, and local

regulations.

RCRA status Discarded product, as sold, would not be considered a

RCRA Hazardous Waste.

14. TRANSPORT INFORMATION

US Department of Transportation (DOT)

UN Number

Proper shipping name

Primary hazard class/division

Secondary hazard

Packing group

Label

15. REGULATORY INFORMATION

OSHA Hazard Communication

No information found

Status

EPA Registration Number

Not applicable

TSCA

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)
2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)	None

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

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Immediate	Delayed	Fire	Pressure	Reactivity
No	No	No	No	No

Section 313 Toxic Chemicals (40 CFR 372)

Chemical Name	CAS Number	Percent by Weight
None		

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16. OTHER INFORMATION

HMIS Ratings Health—0; Flammability—0; Reactivity—0

NFPA Ratings Health—0; Flammability—0; Reactivity—0

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

SDS Issue Date

Version 0

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