

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

Safety Data Sheet

KR-60L

1. IDENTIFICATION

Product name

KR-60L

Description

Aqueous bisulfite solution, catalyzed

Product class

Boiler

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 1-800-424-9300

2. HAZARDS IDENTIFICATION

Hazard classification

Respiratory Sensitization, Category 1

Signal word

Danger

Hazard statements

May cause allergy, asthma symptoms, or breathing

difficulties if inhaled.

Pictograms of related hazards



Precautionary statements

<u>Prevention</u>

Avoid breathing fumes, mists, vapors, or spray.

In case of inadequate ventilation, wear respiratory protection.

Response

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER or health care provider.

<u>Disposal</u>

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

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Weight %	
Sodium bisulfite	7631-90-5	20–30	
Potassium hydroxide	1310-58-3	<2	

4. FIRST-AID MEASURES

Eye contact 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 if

symptoms occur.

Skin contact Remove contaminated clothing and wash the affected

area with soap and water. Wash contaminated clothing

before reuse.

Ingestion If swallowed, DO NOT induce vomiting. Rinse mouth

drink one to two glasses of water; get medical attention for further instruction. Never give anything by mouth to an

unconscious individual.

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

medical attention if breathing is difficult; perform artificial

respiration if breathing stops.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Use extinguishing media appropriate for the surrounding

fire.

Unsuitable extinguishing media No information available

Protective equipment and Exercise caution wh

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 Sodium oxides, sulfur oxides

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

precautions for firefighters

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.

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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

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

construction

No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/face protection

Chemical splash goggles

Skin protection

Chemical-resistant gloves and body-covering clothing

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
Sodium bisulfite	TWA: 5 mg/m ³	TWA: 5 mg/m ³
Potassium hydroxide	Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³

9. PHYSICAL AND CHEMICAL PROPERTIES

На	5.0-6.0
Appearance	Clear pale yellow to pale pink liquid
Odor	Sulfur

Odor Threshold	No information available	
Melting/freezing point	16°F (-9°C)	
Initial boiling point/boiling range	212°F (100°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	No information available	
Vapor density	No information available	
VOC content	No information available	
Specific gravity	1.20–1.24	
Solubility	Completely soluble in water	
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

Oxidizers, acids, steel, aluminum

Hazardous decomposition

products

Oxides of sulfur

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure

Skin, eyes, ingestion

Acute toxicity

Test Material	Parameter	Result
Sodium bisulfite	LD ₅₀ , Oral (rat)	2,000 mg/kg
Potassium hydroxide	LD ₅₀ , Oral (rat)	273 mg/kg
	LD ₅₀ , Dermal (rabbit)	1,260 mg/kg
Product	Acute toxicity estimate	>4000 mg/kg

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Acute symptoms and effects

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

redness, and discharge.

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. Ingestion may invoke or exacerbate allergic reactions in sulfite-allergic individuals including, but not

limited to, asthma symptoms, skin rashes, and itching.

Inhalation Upper respiratory irritation with or without cough, watering

of the eyes, and postnasal drip.

Reproductive effects No information available

Teratogenicity No information available

Mutagenicity No information available **Embryotoxicity** No information available

Sensitization to product Inhalation may invoke or exacerbate symptoms of asthma

or other respiratory hypersensitivities in sulfite-allergic

individuals.

Synergistic products No information available

Carcinogenicity No components have been identified as carcinogenic by

OSHA, NTP, or IARC.

Chronic No information available

12. ECOLOGICAL INFORMATION

Test Material	Parameter	Result
Product	48 hr LC ₅₀ , Daphnia Magna	1,992.90 mg/L
	96 hr LC ₅₀ , Fathead minnow	1,595.63 mg/L

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 Discarded product, as sold, would not be considered a

RCRA Hazardous Waste.

14. TRANSPORT INFORMATION

US Department of Transportation (DOT)

UN Number

UN 2693

Proper shipping name

Bisulfites, aqueous solutions, n.o.s. (contains sodium

bisulfite)

Primary hazard class/division 8

Packing group

111

Label

Corrosive

15. REGULATORY INFORMATION

OSHA Hazard Communication

Status

Danger

Respiratory Sensitization, Category 1

TSCA

The ingredients of this product are listed on the Toxic

Substances Control Act (TSCA) Chemical Substances

Inventory.

CERCLA

EPA Hazardous Substances (40 CFR 302)

Chemical Name	CERCLA Reportable Quantity (RQ)	
Sodium bisulfite	5,000 lb	
Product	>15,000 lb	

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

Section 302 Extremely Hazardous Substances (40 CFR 355)

Chemical Name	CAS#	RQ	TPQ
None			
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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		,

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16. OTHER INFORMATION

HMIS Ratings

Health—2; Flammability—0; Reactivity—1

NFPA Codes

Health—2; Flammability—0; Reactivity—1;

Special Hazard—None

Hazard Rating Scale

Minimal—0; Slight—1; Moderate—2; Serious—3;

Severe-4

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1/8/2016, Section 12

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