



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

## Safety Data Sheet

# KR-C1620

### 1. IDENTIFICATION

<b>Product name</b>	KR-C1620
<b>Description</b>	Proprietary aqueous solution
<b>Product class</b>	Waste Treatment
<b>Supplier address</b>	Suite 450 One North Shore Center 12 Federal Street Pittsburgh, PA 16212
<b>Telephone numbers</b>	
<u>Company Phone Number</u>	(412) 321-9800
<u>Emergency Telephone</u>	CHEMTREC 800-424-9200

### 2. HAZARDS IDENTIFICATION

<b>Hazard classification</b>	Not hazardous pursuant to 29 CFR 1910.1200.
<b>Signal word</b>	None
<b>Hazard statements</b>	None
<b>Pictograms of related hazards</b>	None

#### Precautionary statements

##### Prevention

Read label before use.  
Wash skin thoroughly after handling.  
Wear protective gloves, protective clothing, eye protection, and face protection.

##### Response

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. If vomiting should occur spontaneously, keep airway clear. Never give anything by mouth to an unconscious person. Get medical attention.

IF ON SKIN: Immediately flush skin with soap and water for at least 15 minutes.

##### Storage

Store in a well-ventilated place. Keep cool.

##### Disposal

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

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS #	Weight %
Non-hazardous substances	Proprietary	100

**4. FIRST-AID MEASURES**

<b>Eye contact</b>	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.
<b>Skin contact</b>	Immediately flush skin with soap and water for at least 15 minutes. Remove contaminated clothing and wash the affected area with soap and water. Wash contaminated clothing before reuse.
<b>Ingestion</b>	Rinse mouth. DO NOT induce vomiting. If vomiting should occur spontaneously, keep airway clear. Never give anything by mouth to an unconscious person. Get medical attention.
<b>Inhalation</b>	If inhaled, move victim to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call physician.
<b>Note to health care provider</b>	No specific information—treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

<b>Suitable extinguishing media</b>	This material is not expected to burn unless heated to dryness. Use extinguishing media appropriate for the surrounding fire: water, foam, carbon dioxide (CO <sub>2</sub> ), dry chemical.
<b>Unsuitable extinguishing media</b>	No information available
<b>Protective equipment and precautions for firefighters</b>	Exercise caution when fighting any chemical fire. A self-contained breathing apparatus and protective clothing are essential. Use water to keep fire-exposed containers cool.
<b>Specific hazards</b>	Spills produce slippery surfaces and could present a physical hazard for firemen.
<b>Hazardous combustion products</b>	Thermal decomposition (as may be experienced in a fire) may produce hydrogen chloride gas and/or liberate oxides of nitrogen and carbon.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions</b>	Full protective clothing and approved self-containing breathing apparatus required for firefighting personnel.
<b>Methods for clean-up</b>	
<u>Small spills</u>	Contain spill and soak up with an inert absorbent material and place residues in a properly labeled container for

Large spills

disposal. Avoid discharge into sewer or surface water.  
Contain spill using trenches, diking, or absorption with an inert material (i.e. clay, 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. Take off contaminated clothing and wash before reuse.

**Storage conditions**

Store in a cool (5-30C or 41-86F), 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** Copper, copper alloys, aluminum, mild steel or iron may cause corrosion/degradation.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Eye/face protection**

Chemical splash goggles and face shield (when eye and face contact is possible due to splashing or spraying of material).

**Skin protection**

Chemical-resistant gloves and body-covering clothing

**Respiratory protection**

Under most conditions, use adequate ventilation and protective equipemtn since volatility and toxicity are very low. If significant vapors, mist, or aerosols are present, use NIOSH approved respirator in accordance with OSHA respiratory protection requirements (29 CFR 1910.134) if airborne concentrations exceed published exposure limits.

**Engineering controls**

Adequate ventilation, eye-wash station, and emergency shower

**General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

Chemical Name	OSHA PEL	ACGIH TLV
Non-hazardous substances	None established	None established

**9. PHYSICAL AND CHEMICAL PROPERTIES**

pH	6.5-7.5
Appearance	Clear yellow to amber liquid
Odor	Amine
Odor Threshold	No information available
Melting/freezing point	-7 - 0°C (19.4 - 32°F)
Initial boiling point/boiling	>100°C (212°F) @ 760 mm Hg

range	
Flash point	>100°C (212°F)
Evaporation rate	Equal to water
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	No information available
Vapor pressure	58 mm Hg @ 38°C
Vapor density	>60 mm Hg
VOC content	No information available
Specific gravity	1.12-1.16
Solubility	Complete
Partition coefficient n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	100-200 cP

**10. STABILITY AND REACTIVITY**

<b>Chemical stability</b>	Stable under normal conditions of storage and handling.
<b>Hazardous polymerization</b>	Polymerization will not occur.
<b>Conditions to avoid</b>	Extreme temperatures, incompatibilities
<b>Incompatibilities</b>	Strong acids, oxidizers
<b>Hazardous decomposition products</b>	No known non-thermal decomposition hazards.

**11. TOXICOLOGICAL INFORMATION**

**Likely routes of exposure** Skin, eyes, ingestion

Test Material	Parameter	Result
Product	LD50, Oral (rat)	>2,000 mg/kg
	LD50, Dermal (rabbit)	>2000 mg/kg
	LD50, Inhalation (rat)	No information

**Acute symptoms and effects**

<b>Eye</b>	None expected, but prolonged or repeated eye contact may result in mild irritation and redness of a short-term nature.
<b>Skin</b>	None expected, but prolonged or repeated skin contact may result in mild irritation and redness of a short-term nature.
<b>Ingestion</b>	Effects of ingesting small amounts are negligible, ingesting

	large amounts may injure person slightly.
<b>Inhalation</b>	Not considered hazardous under normal conditions of use.
<b>Reproductive effects</b>	No information available
<b>Teratogenicity</b>	No information available
<b>Mutagenicity</b>	Negative in the Ames test. Negative in the mouse micronucleus test
<b>Embryotoxicity</b>	No information available
<b>Sensitization to product</b>	No information available
<b>Synergistic products</b>	No information available
<b>Carcinogenicity</b>	No components have been identified as carcinogenic by OSHA, NTP, or IARC.
<b>Chronic</b>	No information available

**12. ECOLOGICAL INFORMATION**

Test Material	Parameter	Result
Product	LC50/Danio rerio (Zebra fish)/96 hours	>10 mg/L
	EC50/Daphnia magna (Water flea)/48 hours	>10 mg/L
	IC50/Scenedesmus subspicatus (Green algae)/72 hours	No information
	LC50/Ceriodaphnia dubia (Water flea)/48 hours	0.16 mg/L
	LC50/Oncorhynchus mykiss (Rainbow trout)/96 hours	2.07 mg/L

<b>Persistence</b>	No information available
<b>Bioaccumulative potential</b>	Does not bioaccumulate.
<b>Mobility</b>	No information available

**13. DISPOSAL CONSIDERATIONS**

<b>Disposal</b>	Dispose of in accordance with federal, state, and local regulations.
<b>RCRA status</b>	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                      Not regulated

Primary hazard class/division

Secondary hazard

Packing group

Label

**15. REGULATORY INFORMATION**

OSHA Hazard Communication Status                      Not hazardous pursuant to 29 CFR 1910.1200.

EPA Registration Number                      Not applicable

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	Reportable Quantity (RQ)
Non-hazardous substances	None

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

Section 302 Extremely Hazardous Substances (40 CFR 355)

Chemical Name	CAS#	RQ	TPQ
None			

Section 311 and 312 Health and Physical Hazards

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		

**16. OTHER INFORMATION**

<b>HMIS Ratings</b>	Health—1; Flammability—0; Reactivity—0
<b>NFPA Ratings</b>	Health—1; Flammability—0; Reactivity—0; Special Hazard—None
<b>HMIS and NFPA Rating Scale</b>	Minimal—0; Slight—1; Moderate—2; Serious—3; Severe— 4
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<b>Revision Date</b>	Version 2

*The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.*