



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

## Safety Data Sheet

# KR-51RL

### 1. IDENTIFICATION

<b>Product name</b>	KR-51RL
<b>Description</b>	Proprietary aqueous solution
<b>Product class</b>	Boiler Water
<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. Contact a POISON CENTER or health care provider if you feel unwell.  
IF ON SKIN: Wash with soap and water.

##### 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>	Remove contaminated clothing and wash the affected area with soap and water. Wash contaminated clothing before reuse.
<b>Ingestion</b>	If swallowed, DO NOT induce vomiting. Never give anything by mouth to an unconscious individual.
<b>Inhalation</b>	If inhaled, move victim to fresh air. Seek emergency medical attention if breathing is difficult; perform artificial respiration if breathing stops.
<b>Note to health care provider</b>	No specific information—treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	Use extinguishing media appropriate for the surrounding fire.
<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>	Combustion may produce toxic gases.
<b>Hazardous combustion products</b>	Carbon oxides, nitrogen oxides

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	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.
<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 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** 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** 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** Do not eat, drink, or smoke while handling this product.

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

**9. PHYSICAL AND CHEMICAL PROPERTIES**

pH	7.5-8.5
Appearance	Clear colorless to pale yellow liquid
Odor	No odor
Odor Threshold	No information available
Melting/freezing point	32°F (0°C)
Initial boiling point/boiling range	No information available
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	1.051-1.131

<b>Solubility</b>	Complete
<b>Partition coefficient n-octanol/water</b>	No information available
<b>Auto-ignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity</b>	No information available

## 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

<b>Likely routes of exposure</b>	Skin, eyes, ingestion
<b>Acute symptoms and effects</b>	
<b>Eye</b>	Eye irritation with or without pain, burning, itching, redness, and discharge.
<b>Skin</b>	Skin irritation with or without pain, burning, itching, redness, and swelling. Symptoms may be exacerbated by open wounds, excoriations, rashes, or other skin breaches.
<b>Ingestion</b>	Gastrointestinal distress with or without nausea, vomiting, and diarrhea.
<b>Inhalation</b>	Upper respiratory irritation with or without cough, watering of the eyes, and postnasal drip.
<b>Reproductive effects</b>	No information available
<b>Teratogenicity</b>	No information available
<b>Mutagenicity</b>	No information available
<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

### Aquatic toxicity

#### Product

Parameter	Result
96 hr LC <sub>50</sub> , Pimephales promelas (Fathead minnow)	2,667.69 mg/L
48 hr EC <sub>50</sub> , Daphnia magna	3,600.62 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**

**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**

**HMIS Ratings** Health—1; Flammability—0; Reactivity—0

**NFPA Ratings** Health—1; Flammability—0; Reactivity—0; Special Hazard—None

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

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*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.*