

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

Safety Data Sheet

KR-C1680

1. IDENTIFICATION

Product name

KR-C1680

Description

Proprietary aqueous solution

Product class

Waste Treatment

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 800-424-9200

2. HAZARDS IDENTIFICATION

Hazard classification

Not hazardous pursuant to 29 CFR 1910.1200.

Signal word

None

Hazard statements

None

Pictograms of related hazards

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.

Unknown acute toxicity

51% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Weight %
Polyquaternaryamine (Epichlorohydrin-DMA Copolymer)	42751-79-1	~50*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

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

minutes, holding eyelids apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. Seek medical attention if

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irritation should develop.

Skin contact 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.

Ingestion 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.

Inhalation Remove to fresh air. If not breathing give artificial

respiration. If breathing is difficult, give oxygen. Call a

physician

Note to health care providerNo specific information—treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media This material is not expected to burn unless heated to

dryness. Use extinguishing media appropriate for the surrounding fire: water, foam, carbon dioxide (CO2), dry

chemical.

Unsuitable extinguishing media No information available

Protective equipment and precautions for firefighters

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.

Specific hazards Spills produce slippery surfaces and could present a

physical hazard for firemen.

Hazardous combustion products 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

Personal precautions Full protective clothing and approved self-containing

breathing apparatus required for firefighting personnel.

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. 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

рН	4.0-6.0		
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 range	>100°C (212°F) @ 760 mm Hg		
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	No information available		
n-octanol/water			
Auto-ignition temperature	No information available		
Decomposition temperature	No information available		
Viscosity	4,000 – 9,000 cP		

10. STABILITY AND REACTIVITY

Chemical stability Stable under normal conditions of storage and handling.

Hazardous polymerization Polymerization will not occur.

Conditions to avoid Strong oxidizers. Contact with copper, copper alloys,

aluminum, mild steel or iron may cause

corrosion/degradation.

Incompatibilities Strong acids, oxidizers

Hazardous decomposition No known non-thermal decomposition hazards.

products

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)	>2,000 mg/kg

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LD50, Inhalation (rat)	No information
LD50, milatation (rat)	No mormation

Acute symptoms and effects

Eye Testing conducted using the Draize technique revealed

that the material produces no corneal or iridial effects and

only minor conjuctival effects.

Skin Testing conducted on rabbits using the Draize technique

revealed the material to be mildly irritating to the skin.

Ingestion Effects of ingesting small amounts are negligible, ingesting

large amounts may injure person slightly.

Inhalation Not considered hazardous under normal conditions of use.

Reproductive effects No information available

Teratogenicity No information available

Mutagenicity Negative in the Ames test. Negative in the mouse

micronucleus test

Embryotoxicity No information available

Sensitization to product No information available

Synergistic products No information available

Carcinogenicity This product does not contain any components in

concentrations greater than or equal to 0.1% that are listed as known or suspected carcinogens by NTP, IARC,

ACGIH, or OSHA.

Chronic No information available

12. ECOLOGICAL INFORMATION

Test Material	Parameter	Result
Product	LC50/Danio rerio (Zebra fish)/96 hours	>10 mg/L
	EC50/Daphinia magna (Water flea)/48 hours	>10 mg/L
	IC50/Scenedesmus subspicatus (Green algae)/72 hours	No information

Persistence No information available
Bioaccumulative potential Does not bioaccumulate.

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

Not hazardous pursuant to 29 CFR 1910.1200.

Status

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)

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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—

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