

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

Safety Data Sheet

KRO-870

1. IDENTIFICATION

Product name

KRO-870

Description

Proprietary Aqueous Solution

Product class

Water 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 1-800-424-9300

2. HAZARDS IDENTIFICATION

Hazard classification

Not classified

Signal word

None

Hazard statements

The mixture does not meet the criteria for classification.

Pictograms of related hazards

None

Precautionary statements

Prevention

Observe good industrial hygiene practices.

Response

Wash hands after handling.

Storage

Store away from incompatible materials.

Disposal

Dispose of waste and residues in accordance with local authority requirements.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Weight %
Non-hazardous substances		>99

4. FIRST-AID MEASURES

Eye contact

Rinse with water. Get medical attention if irritation

develops and persists.

Skin contact

Rinse skin with water/shower. Get medical attention if

irritation develops and persists.

Ingestion

Rinse mouth. If ingestion of a large amount does occur,

call a poison control center immediately.

Inhalation

If breathing is difficult, remove to fresh air and keep at

rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Most important

symptoms/effects, acute and

delayed

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment

needed

General information

Treat symptomatically.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect

themselves..

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide

(CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread

the fire.

Protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers

from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the

hazards of other involved materials.

Hazardous combustion products No unusual fire or explosion hazards noted.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Keep unnecessary personnel away. personal

protection, see section 8 of the SDS.

Methods for clean-up

This product is miscible in water.

Small spills

Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Product: KRO-870

Large spills

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product

recovery, flush area with water.

Never return spills to original containers for re-use. For

waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the

ground.

7. HANDLING AND STORAGE

Advice on safe handling

Use care in handling/storage.

Storage conditions

Store in original tightly closed container. Store away from

incompatible materials (see Section 10 of the SDS).

Suitable materials of construction No information available

Unsuitable materials of

construction

No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

Biological limit values Eye/face protection No exposure limits noted for ingredient(s).

No biological exposure limits noted for the ingredient(s).

Not normally needed.

Skin protection

Wear suitable protective clothing.

Respiratory protection

No personal respiratory protective equipment normally

required.

Engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

рΗ	4.0-6.0
Appearance	Clear to slightly hazy colorless liquid
Odor	Characteristic
Odor Threshold	No information available
Melting/freezing point	< 40 °F (< 4.4 °C) estimated
Initial boiling point/boiling range	> 212 °F (> 100 °C) estimated
Flash point	Not applicable
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	No information available
Vapor pressure	< 1.0 mm Hg estimated
Vapor density	No information available
VOC content	No information available
Specific gravity	1.16
Solubility	No information available
Partition coefficient n-octanol/water	No information available
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

Contact with incompatible materials.

Incompatibilities

Strong oxidizing agents.

Hazardous decomposition products No hazardous decomposition products are known

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure

Skin, eyes, ingestion

Acute symptoms and effects

Eye

Direct contact with eyes may cause temporary irritation.

Skin

No adverse effects due to skin contact are expected.

Ingestion

Expected to be a low ingestion hazard.

Inhalation

No adverse effects due to inhalation are expected.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Not available.

Skin corrosion/irritation Serious eye damage/eye

Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation.

Irritation

Respiratory or skin sensitization

Respiratory sensitization Skin sensitization

Not a respiratory sensitizer.

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

Carcinogenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. This product is not considered to be a carcinogen by IARC,

ACGIH, NTP, or OSHA.

IARC Monographs. Overall **Evaluation of Carcinogenicity**

Not available.

OSHA Specifically Regulated Substances (29 CFR 1910.1001Not listed

1050)

US. National Toxicology Program Not available (NTP) Report on Carcinogens

Reproductive toxicity

This product is not expected to cause reproductive or

developmental effects. Not classified

Specific target organ toxicity -

single exposure

Specific target organ toxicity -

repeated exposure

Not classified

Aspiration hazard Further information Not an aspiration hazard.

This product has no known adverse effect on human

health.

12. ECOLOGICAL INFORMATION

Aquatic toxicity

Product

Parameter	Result
96 hr LC ₅₀ , Pimephales promelas	2,000 mg/L
48 hr EC ₅₀ , Daphnia magna	3,000 mg/L

PersistenceNo information availableBioaccumulative potentialNo information availableMobilityNo information available

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming

potential) are expected from this component.

Product: KRO-870

13. DISPOSAL CONSIDERATIONS

Disposal Collect and reclaim or dispose in sealed containers at

licensed waste disposal site.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion

between the user, the producer and the waste disposal

company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues.

This material and its container must be disposed of in a

safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue,

follow label warnings even after container is emptied. Empty containers should be taken to an approved waste

handling site for recycling or disposal.

14. TRANSPORT INFORMATION

US Department of Transportation (DOT)

UN Number UN1759

Not regulated

Proper shipping name

Primary hazard class/division

Packing group

Label

Page 6 of 8

15. REGULATORY INFORMATION

US federal regulations

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

Hazard categories

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region Inventory name

On inventory (yes/no)*

Australia

Australian Inventory of Chemical Substances (AICS)

Yes

Canada

Domestic Substances List (DSL)

Yes

Canada

Non-Domestic Substances List (NDSL)

No

China Inventory of Existing Chemical Substances in China (IECSC) Yes European Inventory of Existing Commercial Chemical Europe European List of Notified Chemical Substances (ELINCS) No Europe Inventory of Existing and New Chemical Substances (ENCS) Yes Japan Existing Chemicals List (ECL) Korea Yes New Zealand New Zealand Inventory Yes **Philippines** Philippine Inventory of Chemicals and Chemical Substances Yes

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

16. OTHER INFORMATION

SDS Issue Date

February 15,2016

Revision Date

Version 1

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.

Product: KRO-870