



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

Safety Data Sheet

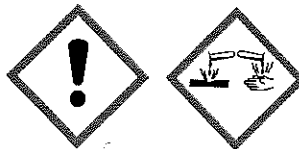
KR-134L

1. IDENTIFICATION

Product name KR-134L
Description Aqueous azole solution
Product class Cooling water
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 Acute Toxicity: Oral, Category 4
Skin Corrosion, Category 1
Serious Eye Damage, Category 1
Signal word Danger
Hazard statements Harmful if swallowed.
Causes severe skin burns and eye damage.
Pictograms of related hazards



Precautionary statements

Prevention

Wash skin thoroughly after handling.
Do not eat, drink, or smoke when using this product.
Do not breathe fumes, mist, vapors, or spray.
Wear protective gloves, protective clothing, eye protection, and face protection.

Response

Immediately contact a POISON CENTER or health care provider.

Wash contaminated clothing before reuse.

Specific measures:

IF SWALLOWED: Contact a POISON CENTER or health care provider if you feel unwell. DO NOT induce vomiting. Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water or emergency shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately contact a POISON CENTER or health care provider.

Storage

Store locked up.

Disposal

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Weight %
Sodium tolyltriazole	64665-57-2	40-50

4. FIRST-AID MEASURES

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eye lids occasionally to ensure complete rinsing. Remove contact lenses if present and easy to do, then resume rinsing. Get medical attention immediately.
Skin contact	Immediately remove all contaminated clothing. Rinse with copious amounts of water; use an emergency shower if available. Wash contaminated clothing before reuse.
Ingestion	If swallowed, DO NOT induce vomiting. 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 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	No information available
Hazardous combustion products	Carbon oxides, nitrogen oxides, sodium oxides

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	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.
Methods for clean-up	
<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	If airborne concentrations exceed published exposure limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements (29 CFR 1910.134).

Engineering controls Adequate ventilation, eye-wash station, and emergency shower.

General hygiene considerations Do not eat, drink, or smoke while handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

pH	13.5
Appearance	Clear yellow to amber liquid
Odor	Mild sweet odor
Odor Threshold	No information available
Melting/freezing point	18°F (-8°C)
Initial boiling point/boiling range	226°F (108°C)
Flash point	>200°F (93°C)
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	No information available
Vapor pressure	0.04 mm Hg @ 68°F
Vapor density	No information available
VOC content	No information available
Specific gravity	No information available
Solubility	No information available
Partition coefficient n-octanol/water	No information available
Auto-ignition temperature	>932°F (500°C)
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 Strong oxidizers, acids

Hazardous decomposition products Hydrogen cyanide formation is possible under reducing conditions.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure Skin, eyes, ingestion

Acute toxicity

Test Material	Parameter	Result
Sodium tolyltriazole (50% solution)	LD ₅₀ , Oral (rat)	735–930 mg/kg
	LD ₅₀ , Dermal (rabbit)	>2000 mg/kg
Sodium tolyltriazole	LD ₅₀ , Inhalation (rat)	>1700 mg/L

Acute symptoms and effects

Eye Eye irritation with or without pain, burning, itching, redness, discharge, and serious eye damage.

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. Onset of symptoms may be delayed relative to exposure.

Ingestion Gastrointestinal distress with or without nausea, vomiting, and diarrhea. May cause irritation or corrosion of the oral and esophageal mucosa.

Inhalation Upper respiratory irritation with or without cough, watering of the eyes, and postnasal drip. Aspiration of liquid or vomit may cause severe respiratory distress, airway corrosion, and acute lung damage.

Reproductive effects No information available

Teratogenicity No information available

Mutagenicity No information available

Embryotoxicity No information available

Sensitization to product No information available

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 LC50 (Daphnia magna)	136.44 mg/L
	96 hr LC50 (Pimephales promelas)	87.63 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 As sold, discarded product would be considered a RCRA hazardous waste based on the corrosive characteristics. The EPA hazardous waste number is D002.

14. TRANSPORT INFORMATION**US Department of Transportation (DOT)**

UN Number UN 1760

Proper shipping name Corrosive liquid, n.o.s. (contains sodium tolyltriazole and sodium hydroxide)

Primary hazard class/division 8

Packing group III

Label Corrosive

15. REGULATORY INFORMATION

OSHA Hazard Communication Status Danger
 Acute Toxicity: Oral, Category 4
 Skin Corrosion, Category 1
 Serious Eye Damage, Category 1r

TSCA The ingredients of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CERCLAEPA Hazardous Substances (40 CFR 302)

Chemical Name	CERCLA Reportable Quantity (RQ)
Sodium hydroxide	1,000 lb
Product	200,000 lb (Notify the EPA of spills exceeding this amount.)

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
Yes	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—3; Flammability—0; Reactivity—0

NFPA CodesHealth—3; Flammability—0; Reactivity—0;
Special Hazard—None**Hazard Rating Scale**Minimal—0; Slight—1; Moderate—2; Serious—3;
Severe—4**SDS Issue Date**

January 27, 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.



NEW CHEMICAL ADDITIVES REQUEST FORM INSTRUCTIONS

"Chemical additive" means a chemical product (including products of disassociation and degradation, collectively "products") introduced into a waste stream that is used for cleaning, disinfecting, or maintenance and which may be detected in effluent discharged to waters of the Commonwealth. The term generally excludes chemicals used for the production of goods or chemicals used in the treatment of wastewater.

The Department of Environmental Protection (DEP) maintains a list of chemical additives ("Approved List") on its website that are approved for general use for industrial operations with NPDES permits (see www.depweb.state.pa.us/chemicaladditives). If required by the facility's NPDES permit, an industrial facility may be limited to using those chemical additives on the Approved List. When a chemical additive is not identified on the Approved List and usage is desired, chemical manufacturers or facilities themselves may submit the New Chemical Additives Request Form to request the addition of a chemical additive to the Approved List.

The following provides general instructions on completing the form. **Please note that failure to provide all of the requested information will result in a delay in approving the chemical additive.**

1. Indicate whether the organization that is submitting the form is a permittee or the manufacturer of the chemical additive. If a permittee is submitting the form, identify the permittee name, permit number, permit effective and expiration dates, facility name, and the municipality and county where the facility is located. If a manufacturer is submitting the form, this section may remain blank.
2. Identify the trade name of the chemical additive. This is the name that should be identified on the Material Safety Data Sheet (MSDS).
3. Identify the manufacturer name of the chemical additive.
4. List the intended use(s) of the chemical additive.
5. At a minimum, report the whole product toxicity test result (48-hour LC₅₀ or EC₅₀), in mg/L, for a species in one of the following three genera of the family Daphnidae - Ceriodaphnia sp., Daphnia sp., or Simocephalus sp. All other whole product aquatic toxicity testing data should be reported on a separate sheet or the MSDS.
6. Identify the species tested for the LC₅₀ or EC₅₀ value(s) reported in No. 5 by checking the appropriate box(es).
7. In the table provided, list each of the product ingredients and its Chemical Abstract Services (CAS) number for the chemical additive. Also provide the percent composition and whether the composition reported is by weight or volume. **A complete list of ingredients is required**; permittees should contact the product manufacturer if all ingredients are not listed on the MSDS. If this information is proprietary and should be treated confidentially, include a letter requesting confidential status. DEP will then redact the product ingredient information following its review.
8. List the analytical method from Pa. Code 25 Chapter 16 (Appendix A, Tables 2A and 2B) or other sources that may be used to determine the effluent concentration of the chemical additive or, if none exists for the chemical additive, then the active ingredient of the additive. If the analytical method is not approved by DEP or EPA, you should attach a copy of the method procedures. If no methods exist according to available information, indicate this on the form.
9. Provide the method detection limit for the analytical method in mg/L.
10. The form must be signed and dated by a responsible official of the organization submitting the request. Also provide the submitter's phone number and email address in the event DEP needs to contact the submitter for clarification or additional information.

An MSDS form must be attached to the New Chemical Additives Request Form. MSDS forms should contain the minimum requirements of the Occupational Safety and Health Administration's (OSHA's) regulations at 29 CFR 1910.1200(g). In addition, aquatic ecotoxicity information should be identified on the MSDS form or on a separate sheet. If the MSDS form does not contain the minimum required information, DEP may be unable to process the request for a new additive.

Mail the completed form with attachments to DEP at the following address:

DEP Bureau of Point and Non-Point Source Management
Division of Planning & Permitting
Rachel Carson State Office Building
PO Box 8774
Harrisburg, PA 17105-8774