

Safety Data Sheet

R2J-2170

1. IDENTIFICATION

Product Name: R2J-2170 **Revised:** 11/18/25
Description: Clear, yellow to gold liquid with characteristic odor
Recommended Use: Cooling Water Treatment
Restrictions on Use: For industrial use only. Not for use in treating drinking water.

COMPANY IDENTIFICATION

R2J Chemical Services, LLC.
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PINELLAS PARK, FL 33781

PHONE NUMBER: 727-531-4135

EMERGENCY PHONE NUMBERS

CHEMTEL 1-800-255-3924
Outside USA 1-813-248-0585

2. HAZARD(S) IDENTIFICATION

GHS Classification:

Serious eye damage/irritation - Category 2A
Skin corrosion/irritation - Category 2
Specific target organ toxicity, single exposure; respiratory tract irritation - Category 3
Sensitization, skin - Category 1

Signal Word: Warning

Symbol(s):



Hazard Statements:

Causes serious eye irritation.
Causes skin irritation.
May cause respiratory irritation.
May cause an allergic skin reaction.

Precautionary Statements:

Prevention

Avoid breathing dusts or mists. Wash hands, forearms, gloves and contaminated surfaces thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of soap and water. Specific treatment (see First Aid on SDS or on this label). If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CONTROL CENTER or doctor for treatment advice if you feel unwell.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CONTROL CENTER or doctor for treatment advice if you feel unwell.
If skin irritation or rash occurs: Get medical advice or attention.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

Dispose of contents/container in accordance with local, regional, national and international regulations.

Hazards Not Otherwise Classified: None Known.

Percentages of Components with Unknown Acute Toxicity:

Dermal: 38%

Inhalation: 38%

3. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL INGREDIENTS	CAS NO.*	PERCENT (%)**
PROPYLENE GLYCOL	57-55-6	2% - 8%
BENZOTRIAZOLE	95-14-7	2% - 8%
PHOSPHONOBUTANE- 1,2,4-TRICARBOXYLIC ACID	37971-36-1	2% - 8%
POLYMALEIC ACID	26099-09-2	2% - 8%
ACRYLIC TERPOLYMER	151006-66-5	H
CO-PHOSPHONOCARBOXYLIC ACID	143239-08-1	M
WATER	7732-18-5	M
FLUORESCENT TRACER	59572-10-0	L

Legend: L=<1%; M=1-10%; H=>10%

* Exposure limit and regulatory information in Sections 8 & 15

** Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Eye Contact: Immediately flush with clean, cool water for 15 minutes and if irritation persists, get medical attention.

Skin Contact: Immediately wash skin with soap and plenty of water while removing contaminated clothing, for at least 15 minutes. If irritation persists, get medical attention. Launder contaminated clothing before reuse.

Inhalation: Remove victim to fresh air. If individual experiences nausea, headache, dizziness, has difficulty in breathing or is cyanotic, seek medical attention. If not breathing, give artificial respiration via a suitable mechanical device such as a bag and mask. Do not use mouth-to-mouth resuscitation.

Ingestion: Do not induce vomiting. Rinse mouth with copious quantities of water first and get immediate medical attention. Drink several glasses of water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep airways clear.

Note to Physician: There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

Most Important Symptoms/Effects:

Eye Contact: May cause irritation. May cause corneal damage with prolonged contact.

Skin Contact: Prolonged contact may cause irritation.

Inhalation: Vapors or mists may irritate respiratory passages.

Ingestion: May be mildly toxic. May cause gastrointestinal irritation. Do not take internally. May cause nausea, vomiting, and/or diarrhea.

Indication of Immediate Medical Attention and Special Treatment, if Necessary:

Other than acute, none known. See section 11 for toxicological information.

5. FIRE FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Water spray or fog, foam, dry chemical or carbon dioxide

Specific Hazards Arising from the Chemical: Product may be irritating to the eyes, skin, and respiratory system. Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat. If evaporated to dryness, some product residuals may burn. No known hazardous decomposition products.

Special Protective Equipment and Precautions for Fire-Fighters: Wear self-contained breathing apparatus and full turn-out gear. Approach fire from upwind direction. If possible, move containers away from fire. Cool fire exposed containers with water spray. If containers rupture or leak, product may evolve irritating or toxic gas under extreme heat. Contain runoff.

6. ACCIDENTAL RELEASE MEASURES

Spill Containment and Clean-up Instructions:

Wear suitable protective equipment found in section 8. Small spills may be flushed with copious quantities of water, preferably to a sanitary sewer or waste treatment facility. Larger spills may be absorbed in sawdust or other absorbent and sweepings disposed of in an approved landfill. The area may then be flushed with copious quantities of water. Floor may be slippery; use care to avoid falling. Avoid release of this product into the environment to prevent contamination of soil, sewers, natural waterways and/or groundwater. See Section 12 for Ecological Information.

7. HANDLING AND STORAGE

Handling and Storage:

Store in a cool, dry, well ventilated area, between 10°C and 49°C. Keep containers tightly closed when not in use and follow all recommended safety precautions when handling the material. Keep out of sun and away from heat or open flame. Keep away from incompatible materials. See Section 10 for incompatible materials.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering Controls: General ventilation expected to be satisfactory

PERSONAL PROTECTION EQUIPMENT

Respiratory: Not normally required if good ventilation is maintained. Otherwise, wear self-contained breathing apparatus

Eyes and Face: Chemical resistant goggles or face shield.

Hands and Skin: Chemical resistant rubber, neoprene latex or PVC

Other Protective Equipment: Wear chemical resistant protective clothing and footwear impervious to the product for the duration of the anticipated exposure if there is a potential for skin contact. An emergency shower should be readily accessible. Discard any contaminated clothing.

EXPOSURE GUIDELINES

Exposure Limits:

COMPONENT	TLV
N.A.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor:	Clear, yellow to gold liquid with characteristic odor		
Odor Threshold:	N.D.	Vapor Pressure:	N.A.
pH (undiluted):	3.0 - 4.0	Vapor Density:	<1
Freeze Point:	< 4°C (39°F)	Specific Gravity(@22°C):	1.125 - 1.141
Boiling Point:	>100°C (212°F)	Solubility in Water:	Complete
Flash Point:	None	Partition Coefficient:	N.D. (n-octanol/water)
Evaporation Rate:	N.D.	Auto-Ignition Temperature:	N.D.
Flammability (solid, gas):	No	Decomposition Temperature:	N.D.
Flammable Limits in Air:	LFL – N.A. UFL – N.A.	Viscosity:	N.D.

10. STABILITY AND REACTIVITY

Reactivity: Reacts violently with strong alkaline substances. This product may react with reducing agents.

Chemical Stability: Stable under normal conditions

Possibility of Hazardous Reactions: Will not occur under normal conditions.

Conditions to Avoid: Contact with incompatible materials. Do not mix with other chemicals

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: No known hazardous decomposition products.

11. TOXICOLOGICAL INFORMATION

Ingestion Testing: Rat, LD50: > 5,000 mg/kg*

Skin Testing: None established for this product.

Inhalation Testing: None established for this product.

*Calculated based on GHS acute toxicity formula.

CHRONIC TOXICITY DATA

Sensitization Testing: None established for this product.

Other Testing: None established for this product.

Routes of Exposure: Eyes, Ingestion, Inhalation, Skin.

Eye Contact: May cause irritation. May cause corneal damage with prolonged contact.

Skin Contact: Prolonged contact may cause irritation.

Inhalation: Vapors or mists may irritate respiratory passages.

Ingestion: May be mildly toxic. May cause gastrointestinal irritation. Do not take internally. May cause nausea, vomiting, and/or diarrhea.

Medical Conditions Aggravated by Exposure: None known.

Chronic Effects from Repeated Overexposure: Other than short term effects, none established.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity Data:

Invertebrate: Daphnia magna, LC50/48hr: > 1,000 mg/l*

Fish: Rainbow trout, LC50/96hr: 680 mg/l*

*Calculated based on GHS acute aquatic toxicity formula.

Product Fate Data: None established for this product.

Biodegradation Data: None established for this product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance with local, regional, national and international regulations.

Contact the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Triple rinse container (or equivalent) promptly after emptying and offer for reconditioning if appropriate. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal.

14. TRANSPORT INFORMATION

US DEPARTMENT OF TRANSPORTATION (DOT) INFORMATION

NOT REGULATED

VESSEL TRANSPORT (IMO/IMDG)

NOT REGULATED

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

TSCA: All ingredients listed or exempt from listing.

CERCLA and/or SARA RQ: No ingredients listed in this section.

SARA Section 302 Hazard Class: No ingredients listed in this section.

SARA Section 311/312 Chemicals:

Acute Health Hazard: Yes

Chronic Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

SARA Section 313 Chemicals: No ingredients listed in this section.

STATE REGULATIONS

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.

16. OTHER INFORMATION

HAZARD RATING SUMMARY

Hazard Rating System: NFPA
Health: 2
Flammability: 0
Reactivity: 0
Special:

CODE TRANSLATION
0 = Minimal Hazard
1 = Slight Hazard
2 = Moderate Hazard
3 = Severe Hazard
4 = Extreme Hazard

Other Precautions: This product has been designed for use in specific types of process water and cooling water circuits and should be used only in accordance with the instructions provided by the technical representative servicing the facility. It may not be used for the treatment of potable water. However, the acute oral and aquatic toxicity data presented herein should demonstrate that the product can be safely used for scale inhibition in stripper towers associated with ground water remediation projects.

SDS REVISION SUMMARY

Revised Date	Revision Notes
11/18/25	GHS Version 2.0: Supersedes: 8/1/25

ABBREVIATION CODE SUMMARY

N.A. – Not Applicable
N/A – Not Available
N.D. – Not Determined
N.E. – None Established

Disclaimer: The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given.