

CRI Corrosion Rust Inhibitor

Industrial cooling-system corrosion and rust inhibitor

Controlled safety source: SDS_CRI.pdf, SDS UC-023, revision January 20, 2026. This TDS does not replace the current Safety Data Sheet.

PRODUCT OVERVIEW

CRI Corrosion Rust Inhibitor is an industrial cooling-system treatment used to supplement corrosion and rust inhibition in ethylene-glycol and water coolant mixtures. CRI is supplied ready to use.

Recommended use	Industrial and manufacturing use only	Physical state	Liquid
Appearance	Clear yellowish-brown liquid	Odor	Neutral / acidic within SDS text
pH	9.0-9.5 at 1% solution	Specific gravity	1.306-1.43
Water solubility	Completely soluble	Primary listed component	Sodium nitrite
Transport	UN1500 Sodium Nitrite, Class 5.1, PG III	Ecology	Toxic to aquatic life with long lasting effects

SUGGESTED USE CONCENTRATIONS

CRI is READY TO USE. The percentages below identify the suggested CRI concentration in the completed coolant solution; they are not premixing ratios for the CRI container.

Existing coolant mixture	Suggested completed-solution CRI concentration
25% ethylene glycol / 75% water	6% CRI solution suggested
50% ethylene glycol / 50% water	3% CRI solution suggested

Confirm system capacity and existing coolant concentration before calculating CRI quantity. Do not exceed a site-approved treatment concentration without technical authorization.

SHIPPING, PACKAGE AND LOGISTICS

Variant	Physical Package	SKU	Gross Weight	Dimensions	NMFC	Class
Standard	1 Gallon Jug	CRI001	10.4 lb	6 x 6 x 12 in	43940	55
Standard	5 Gallon Bucket	CRI005	52 lb	10.25 x 10.25 x 14.75 in	43940	55
Standard	55 Gallon Drum	CRI055	572 lb	23.5 x 23.5 x 35 in	43940	55
Standard	250 Gallon Tote	CRI250	2,600 lb	40 x 47 x 46 in	43940	55
Double Strength	250 Gallon Tote	CRI500	2,600 lb	40 x 47 x 46 in	43940	55
Triple Strength	250 Gallon Tote	CRI750	2,600 lb	40 x 47 x 46 in	43940	55

Transportation: DOT, IATA and IMDG: UN1500, Sodium Nitrite, Hazard Class 5.1, Packing Group III. SDS Section 15 lists a 100 lb CERCLA reportable quantity for sodium nitrite.

NFPA 704



Health	3	Serious health hazard
Flammability	0	No flammability rating above zero
Instability	0	Stable under recommended handling/storage
Special	-	Not determined

GHS HAZARD COMMUNICATION

 	Danger Toxic if swallowed. Can cause eye irritation. Toxic to aquatic life.
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SAFE HANDLING AND REQUIRED CONTROLS

- Do not handle until all safety precautions have been read and understood.
- Avoid breathing mist, vapor or spray.
- Use only with adequate ventilation. The SDS directs outdoor use and suitable ventilation controls.
- Wear chemical safety goggles and/or a face shield with safety glasses.
- Wear chemically resistant gloves, protective clothing, apron and boots as appropriate.
- Keep eyewash stations and emergency showers immediately accessible.
- Wash face, hands, forearms and exposed skin thoroughly after handling.
- Keep CRI out of reach of children and restrict use to industrial applications.

STORAGE AND INCOMPATIBILITIES

- Store locked up with the container tightly closed in a cool, well-ventilated place.
- Keep away from heat, sparks and open flames.
- Prevent spills and keep away from incompatible materials.
- Do not reuse empty product containers because residue may remain.
- Keep away from combustible materials, strong acids, strong bases, oxidizing agents and reducing agents.
- Avoid extremely high or low storage temperatures.

FIRST AID FROM CURRENT SDS

Exposure	Current SDS direction
Eyes	Immediately flush with plenty of water. After initial flushing, remove contact lenses and continue flushing for at least 15 minutes. Immediately call a poison center or doctor/physician.
Skin	Immediately flush skin with plenty of water and soap. Wash clothing before reuse. Destroy contaminated clothing. Immediately call a poison center or doctor/physician.
Inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.
Ingestion	DO NOT induce vomiting unless directed by a medical professional. Give plenty of water. Never give anything by mouth to an unconscious person. If large quantities are swallowed, call a physician immediately.

Emergency contact: INFOTRAC 1-800-535-5053 North America; 1-352-323-3500 International.

SPILL AND ENVIRONMENTAL HANDLING

- Stop the flow if it can be done safely and wear appropriate PPE during cleanup.
- Do not allow CRI to enter public drainage systems, soil or open water courses.
- Collect recovered material in an appropriate labeled container for disposal.
- Wash the spill area thoroughly after recovery while preventing uncontrolled runoff.
- CRI is toxic to aquatic life with long lasting effects.
- Dispose of product, cleanup material and contaminated packaging in accordance with applicable laws and site procedures.

TRANSPORTATION AND REGULATORY PROFILE

Mode / Field	Controlled value
DOT	UN1500, Sodium Nitrite, Class 5.1, Packing Group III
IATA	UN1500, Sodium Nitrite, Class 5.1, Packing Group III
IMDG	UN1500, Sodium Nitrite, Class 5.1, Packing Group III
CERCLA RQ	100 lb for sodium nitrite
California Proposition 65	Current SDS states this product does not contain Proposition 65 chemicals.

ESSENTIAL OPERATING RESTRICTIONS

- CRI is supplied READY TO USE.
- Use the suggested percentage appropriate to the ethylene-glycol/water coolant mixture.
- Do not ingest and do not permit uncontrolled environmental release.
- Do not mix with strong acids, strong bases, oxidizers, reducing agents or unknown chemicals.
- Do not reuse empty containers.
- Consult the current SDS before handling, storage, transportation or spill response.

DOCUMENT CONTROL

Product	CRI Corrosion Rust Inhibitor
Product code	CRI
Safety source	SDS_CRI.pdf SDS UC-023 revision January 20, 2026 Version 1
Operational source	CRI_TDS.PDF Revision 1, August 4, 2026
Shipping source	2026 Ultimate Chemicals Product Shipping Specs Matrix.xlsx
NFPA asset	NFPA_3-0-0.svg
GHS assets	GHS06_Skull_and_Crossbones.png and GHS07_Exclamation_Mark.png
Header artwork	Approved Ultimate Chemicals logo upper left; approved glow fallback upper right
Program/footer artwork	Approved glow logo. CRI is not on the controlled Zero Hour badge list.

QUICK ACCESS

Scan the QR code or select the printed URL. Each printed URL is embedded as a clickable PDF hyperlink.

PRODUCT PAGE



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TDS



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