



CorroShield™
Multi-Metal Corrosion Inhibitor

EMERGENCY TELEPHONE 1-800-535-5053 (INFOTRAC)

DESCRIPTION

Trade Name:	CorroShield™
Chemical Name:	Multi-Metal Corrosion Inhibitor
HMIS Rating:	Health 2 Flammability 0 Reactivity 1 Personal Protection J
Dot Ship Class	Non-Regulated
Emergency Response Guide Number	None Listed

HAZARDOUS INGREDIENTS

Components	Cas #	%	OSHA PEL	ACGIH TLV	Other Limits
Mixture of Alkylated and methylated quinolines	N/A	<20	N/E	N/E	
Non-Hazardous Components (Surface active ingredients, corrosion inhibitors and water)	N/A	>70			
Total		100			

PHYSICAL DATA

Physical State	Amber Liquid/ Separated in two phases
Appearance and Odor	Amber Liquid Slight Odor of Quinolines
pH	4.43
Melting Point	N/A
Boiling Point	212° F/ Some components volatilize at lower temperature
Vapor Pressure (mm Hg)	N/A
Vapor Density (Air = 1)	N/A
Solubility in Water	Miscible and some phase separation
Percent Volatile (By Weight)	80 ±
Specific Gravity (H ₂ O = 1)	1.10
Evaporation Rate ((H ₂ O = 1)	1.00
Water Reactive	None
Corrosion tests	Non corrosive

FIRE and EXPLOSION DATA

Flash Point	N/A
Auto-Ignition Temperature	N/A
Lower Flammable Limits in Air (% by Volume)	N.I.A
Upper Flammable Limits in Air (% by Volume)	N.I.A
Fire Extinguishing Agents Recommended	N/A
Special Fire Fighting Precautions	Wear self-contained breathing apparatus approved by NIOSH.
Unusual Fire and Explosion Hazards	None

REACTIVITY DATA

Stability	Stable
Decomposition Products	NOx, COx on combustion
Hazardous Polymerization	Will Not Occur
Incompatibility	Avoid Alkalies, Oxidizers or any reactive material
Conditions to Avoid	Extreme temperatures

HEALTH HAZARD DATA

Inhalation	Not tested for the blend. Quinoline residue is toxic by inhalation of vapors and ingestion.
Ingestion	Ingestion of this product may be fatal. Estimated LD50 based on the Quinoline content are: 660 mg/Kg (rat), 1080 mg/Kg (rabbit). Do not induce vomiting. Dilute by giving large amount of water. Get immediate medical attention.
Skin	Moderately toxic by skin contact Flush skin with water for at least 15 minutes. If irritation persists, get medical attention.
Eyes	Eye contact produces irritation and can be damaging. Material can cause retinitis similar to that of naphthalene, but without causing opacity of the lens. Immediate flush eyes with water for 15 minutes. Get medical attention immediately.
Unusual Chronic Toxicity	None Known for the blend, but excessive inhalation of quinolines produce irritation of the respiratory tract, asthmatic breathing, headache, dizziness, nausea, and central nervous system depression.
Carcinogen Listed in	Not Listed by NTP, IARC Monograph, OSHA REG.

PRECAUTIONS FOR SAFE HANDLING AND USE

Leak and Spill Procedures	Cover and absorb small spills with mixture of sand and soda ash, pick up and place in a cardboard box with crumpled paper, scrap wood excelsior, etc for prompt burning. This material may be burned in a chemical incinerator equipped with an afterburner and scrubber (nitrogen oxides emission)
Handling and Storing Procedures	Avoid contact with skin, eyes, or clothing. Do not inhale mists. Use normal personal hygiene and housekeeping.
Waste Disposal Methods	As per Local and Federal Regulations. This material or its individual components are not listed as Waste by 40CFR 261 not in the List of Marine Pollutants 49CFR 172.101 Appendix B
Other Precautions	Restrict exposure of those with central nervous system, kidney or liver disorders.

SPECIAL PROTECTION INFORMATION

Respiratory Protection	NIOSH Approved Respirator
Protective Gloves	Rubber Gloves
Eye and Face Protection	Chemical Splash Goggles and/or Face Shield
Ventilation	Local Exhaust
Other Protective Equipment	Rubber Apron, Eye Wash, and Quick Drench Shower.

SARA TITLE III REGULATORY INGREDIENT INFORMATION

Title III Section 302/304 Extremely Hazardous Substance List and/or CERCLA Hazardous Substance List.

Component	Quinoline
CAS #	91-22-5
Percent:	1 to 5 %
RQ (lbs):	5,000

Title III Section 313 Toxic Chemical Annual Release Reporting Requirements (SARA Section 313 Toxic Chemical List).

Component	Quinoline
CAS #	91-22-5
Percent:	1 to 5 %
RQ (lbs):	5,000

USER'S RESPONSIBILITY

The information and recommendations contained herein cannot cover all possible situations that the user may experience during processing. Each aspect of your operation should be examined to determine, if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operations.

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