

Product Name: Corrosion Inhibitor (additive)

Date of Issue: 12/2/09



ChemFree Corporation
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MATERIAL SAFETY DATA SHEET

SECTION I: PRODUCT & COMPANY IDENTIFICATION

Product Name: Corrosion Inhibitor (additive)

Product Use: Metal working additive for the SmartWasher® system

Product Code: Corrosion Inhibitor

24 H Emergency Response: Infotrac (800) 535-5053 in the U.S. or outside the United States call (Collect) 1-352-323-3500

Manufactured by: ChemFree Corporation • 8 Meca Way • Norcross, GA, 30093 • U.S.A

SECTION II: HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	CAS #	OSHA PEL	ACGIH TLV
Triethanolamine All components of this material are on the TSCA Inventory or are exempt	1-4.9%	102-71-6	N/A	N/A

SECTION III: HAZARDS IDENTIFICATION

UN Number: Not Regulated for Transport

Dangerous Goods Classification: Non-Hazardous

HAZARD RATINGS (NFPA/HMIS)

HEALTH	2	0=least 1=slight 2=moderate 3=high 4=extreme
FLAMMABILITY	0	
REACTIVITY	0	

SECTION IV: FIRST AID MEASURES

EMERGENCY & FIRST AID PROCEDURES:

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 attention.

SKIN: Wash with soap and water. Remove contaminated clothing. If skin irritation occurs, get medical attention. Launder contaminated clothing before reuse.

INGESTION: DO NOT INDUCE VOMITING. Get medical attention.

INHALATION: Remove exposed person to fresh air if adverse effects are observed.

SECTION V: FIRE & EXPLOSION HAZARD DATA

FLAMMABILITY: None

FLASH POINT: N/A

FLAMMABLE LIMITS: N/A

LOWER: Not Determined

SPECIAL FIRE FIGHTING PROCEDURES: Recommend wearing self-contained breathing apparatus.

USUAL FIRE & EXPLOSION HAZARDS: CO₂, dry chemical, or foam. Water can be used to cool and protect exposed material.

MEANS OF EXTINCTION: N/A

METHOD USED: N/A

UPPER: Not Determined

SECTION VI: ACCIDENTAL RELEASE MEASURES

In the event that this material is released or spilled, personal protective equipment must be worn. Ventilate area if spilling in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

SECTION VII: HANDLING & STORAGE

Open container in a well ventilated area. Avoid breathing vapors. Keep containers closed when not in use. Do not breathe dust, fume, gas, mist, vapors or spray. Wash thoroughly after handling. Empty container contains product residue which may exhibit hazards of product.

STORAGE: No special storage precautions required.

SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION



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Product Name: Corrosion Inhibitor (additive)

Comp	Exposure Guidelines					
	OSHA		ACGIH		Other	
	TWA	STEL	TWA	STEL	TWA	STEL
Triethanolamine	N/E	N/E	5 mg/cu. M	N/E	N/E	N/E

Exposure Limits: (s) Skin Exposure; (p) Proposed Limit; (c) Ceiling Exposure; (l) Recommended Exposure Limit; (u) Supplier Recommended Exposure Limit; (N/E) None Established

Engineering Controls: Use with adequate ventilation; **Gloves Protection:** Use nitrile or neoprene gloves; **Eye Protection:** Safety Glasses; **Respiratory Protection:** If recommended exposure limit is exceeded use NIOSH/MSHA approved full face respirator with a combination organic vapor and high efficiency filter cartridge. Use self contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean up sites. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. **Clothing Recommendation:** Long sleeve shirt is recommended. Wear a chemically protective apron when contact with material may occur. When working with heated material, wear an insulated apron or an insulated chemical protective suit. Use neoprene or nitrile rubber boots when necessary to avoid contaminating shoes. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction. Launder contaminated clothing before reuse.

SECTION IX: PHYSICAL / CHEMICAL CHARACTERISTICS

PHYSICAL STATE: Liquid

BOILING POINT: 212 °F/100 °C (Approx.)

APPEARANCE AND ODOR: Pale yellow liquid, mild

SOLUBILITY IN WATER: Soluble

pH: 7.6

SPECIFIC GRAVITY: 1.07 (Water=1)

Vapor Pressure (mm Hg): not determined

SECTION X: STABILITY AND REACTIVITY DATA

REACTIVITY: Non-reactive

STABILITY: The product is normally stable at moderately elevated temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBILITY: This material contains amines. Do not add nitrite or other nitrosating agents due to the potential for nitrosamine formation.

SECTION XI: TOXICOLOGICAL PROPERTIES

EYE IRRITATION: Weak to moderate eye irritant. Does not meet Canadian D2B or EU R36 criteria. Based on data from components and similar materials.

SKIN IRRITATION: Not expected to be a primary skin irritant. Prolonged or repeated contact may cause dermatitis.

RESPIRATORY IRRITATION: If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.

DERMAL TOXICITY: The LD50 in rabbits is > 2000 mg/kg.

INHALATION TOXICITY: No data available to indicate product or components may be a toxic inhalation hazard.

ORAL TOXICITY: The LD50 in rats is > 5000 mg/kg.

DERMAL SENSITIZATION: There are literature reports that skin contact with triethanolamine may cause sensitization and an allergic skin reaction in a small portion of individuals.

INHALATION SENSITIZATION: No data available to indicate product or components may be respiratory sensitizers.

CHRONIC TOXICITY: Repeated overexposure to alkanolamines may cause liver and kidney damage.

CARCINOGENICITY: No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.

MUTAGENICITY: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

REPRODUCTIVE TOXICITY: No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.

TERATOGENICITY: No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

SECTION XII: BIODEGRADABILITY AND ENVIRONMENTAL TOXICITY INFORMATION

BIODEGRADATION: Adequate data is not available to estimate the biodegradation potential of this material.

TOXICITY INFORMATION: Not determined

SECTION XIII: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261

SECTION XIV: TRANSPORTATION INFORMATION

Proper Shipping Name: None

DOT Classification: This product is not regulated for transportation in accordance with Code of Federal Regulation 49 (CFR49)

UN Number: Not regulated for Transport

SECTION XV: REGULATORY INFORMATION

Workplace classification: This product is considered hazardous under the OSHA Hazard Communication Standard 29CFR 1910.1200.

SARA Title 3: None TSCA Status: Listed RCRA classification: Unknown CERCLA reportable quantity: None known

CAL. Prop. 65: This product does not intentionally contain any chemicals known by the State of California to cause cancer and/or birth defects. Moreover, we do not routinely analyze its products for impurities which may be such chemicals.

