

# MATERIAL SAFETY DATA SHEET

## SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** CRANE  
**Product Use:** Humidifier Cleaner

**Manufactured for:** Crane USA, Inc.  
1800 Nicholas Blvd,  
Elk Grove Village, IL 60007

**Emergency:** CANUTEC: 613-996-6666

## SECTION 2: COMPOSITION, INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>Wt %</u>	<u>ACGIH-TLV</u>	<u>LC<sub>50</sub></u>	<u>LD<sub>50</sub></u>
Organic Salt (patented)	506-89-8	0.1-1	N/A	N/A	N/A
Alcohol ethoxylate	68991-48-0	0.1-1	N/A	N/A	>2000 mg/kg (oral, rat)

## SECTION 3: HAZARDS IDENTIFICATION

**Route of Entry:** eyes, skin, ingestion, inhalation.

### EFFECTS OF ACUTE EXPOSURE:

Eye: Possible eye irritant.

Skin: Prolonged or repeated contact can cause irritation. Non-corrosive to skin.

Ingestion: May be harmful or fatal if ingested.

Inhalation: Can be irritating to the respiratory tract if inhaled as a mist or if the product is vaporized.

### EFFECTS OF CHRONIC EXPOSURE:

Irritancy: Prolonged or repeated exposure can cause drying, defatting, and dermatitis.

Skin sensitization: Non-sensitizer.

Carcinogenicity: Non-hazardous by WHMIS/OSHA criteria.

Teratogenicity : Not found to be teratogenic.

Mutagenicity: Not found to be mutagenic.

Synergistic Materials: Not available.

This product is not known to contain any chemicals known to the State of California to cause cancer and/or developmental reproductive harm.

#### SECTION 4: FIRST AID MEASURES

**Eye:** Immediately rinse with plenty of water for 15 minutes, keeping eyelids open. Seek medical attention immediately.

**Skin:** Rinse with potable water for 15 minutes. Remove soiled clothes and wash before wearing. Seek medical attention should an irritation develop.

**Inhalation:** Bring the person to fresh air. Seek medical attention if discomfort persists.

**Ingestion:** Give plenty of water. Never administer anything by mouth if the person is unconscious. Do not induce vomiting. Seek immediate medical attention.

#### SECTION 5: FIRE FIGHTING MEASURES

**Flammability:** Non flammable, Non Combustible.

**Flash Point ( TCC, °C ): > 93.3**

**LEL:** Not applicable

**UEL:** Not applicable

**Hazardous Combustion Products:** carbon oxides, nitrogen, and chlorine. Hydrogen may be released upon contact with certain metals, especially aluminum.

**Autoignition Temperature (°C):** Not applicable.

**Means of Extinction:** Water spray, carbon dioxide and dry chemical.

**Special Fire Hazards:** At temperatures above 60 °C, acid action on metals may release hydrogen, a highly flammable and explosive gas.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedure: Evacuate and ventilate area. Wear personal protective equipment. Stop the leak. Absorb the product with inert absorbent and place it in a tightly closed container for destruction. Prevent large spills from entering sewers.

## SECTION 7: HANDLING AND STORAGE

Storage Requirements: **KEEP OUT OF REACH OF CHILDREN**. Keep in a tightly sealed container, in a cool, dry place. Do not store with food products. Keep from freezing.

## SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Shower and eye wash station. Provide adequate ventilation.

Respiratory Protection: Not required, if adequate ventilation is available. Avoid breathing vapor or mist

Gloves: Plastic or rubber gloves to manipulate product.

Eye Protection: Goggles with side shields.

Other Protective Equipment: Waterproof boots and apron if large spill.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Colorless, transparent, and odorless

Physical State: Liquid

Boiling Point ( °C ): 100

Specific Gravity (H<sub>2</sub>O = 1): 1.002 at 20 °C

Vapor Pressure (mm Hg): N/A

% Volatile (Wt %): 70 - 80

Vapor Density (Air = 1): N/A

Evaporation Rate (Water = 1): > 1

Solubility in Water: Complete

pH (as supplied): 1.0 - 2.0

Viscosity: < 1000 cps at 25 °C

Odor Threshold (ppm): N/A

## **SECTION 10: STABILITY AND REACTIVITY**

Conditions for Chemical Instability: This product is stable under normal conditions. It does not polymerize.

Incompatible Materials: Strong oxidizing agents, alkalis (contact will generate heat), carbonates, organic peroxides, hypochlorites (bleach), sulfides, cyanides, fluorides (contact will liberate toxic gases).

Reactivity, and Under What Conditions: If strongly heated or if in contact with incompatible substances, the product decomposes and forms toxic or flammable gas.

Hazardous Decomposition Products: oxides of carbon, nitrogen, and chlorine. Hydrogen gas may be released upon contact with most metals.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

Carcinogenicity: Non-hazardous by WHMIS/OSHA criteria. Not listed by IARC, NTP, or ACGIH.

Teratogenicity, Mutagenicity, Reproductive Effects: This product was found not to be mutagenic when tested by the

Ames Assay, (OECD Guidelines for Testing of Chemicals, Sec. 471)

Synergistic Materials: Not available

Based on the information on the ingredients (see section 2) this product may cause irritation to the eyes upon contact.

Draize method (OECD Guidelines for Testing of Chemicals, Sec. 4-5, 1992.)

Skin Sensitization (OECD Sec. 406): Non-skin sensitizing

## **SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity: There is no test data on this product

Environmental Fate: There is no test data on this product

Environmental Fate: Readily Biodegradable as per OECD 301D. Fish, Acute Toxicity Test, OECD 203: 96 hour.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

Review federal, provincial or state and local government requirements prior to disposal.

### **SECTION 14: TRANSPORT INFORMATION**

U.S. Department of Transportation: Not Regulated

Canadian T.D.G.: Not Regulated

Water Transportation: Not Regulated

Air Transportation: Not Regulated

### **SECTION 15: REGULATORY INFORMATION**

Occupational Health & Safety Regulations:

WHMIS Classification: Class D - Division 2B,  
Class E - Note: This material is corrosive to Aluminum only. Non-Corrosive to Skin & Mild Steel

Canadian Regulations (CCCR): Not Regulated

OSHA & WHMIS: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) and Canadian WHMIS regulations (Controlled Products Regulations under the Hazardous Products Act).

Environmental Regulatory Lists:

SARA: Section 313 (Toxic Chemical Release Reporting) 40 CFR 372 – None of the ingredients are listed.

Toxic Substances Control Act (TSCA): All the ingredients are listed on the Chemical Substance Inventory

Canadian Domestic Substance List (DSL): All ingredients are listed.

## SECTION 16: OTHER INFORMATION

Shipping Containers: 8 FL. OZ. (236 mL)

HMIS Rating

Health: 2

Flammability: 0

Reactivity: 1

Personal Protection: S

### PREPARATION INFORMATION

Prepared by: Danielle Bonenfant, chemist

Chemotec (PM) Inc.

Date: August 17<sup>th</sup>, 2007

Phone: (514) 729-6321

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### Abbreviation:

N/A : Not available

### Disclaimer:

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages that may result from the use of or reliance on any information contained in this form. If user requires independent information on ingredients in this or any other material, we recommend contact with the Canadian Center for Occupational Health and Safety ( CCOHS ) in Hamilton, Ontario ( 1-800-263-8276 ) or CSST in Montreal ( 514-873-3990 ).