

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND CONTACT INFORMATION

Product Name: Lubercool, a cooling water corrosion treatment

AR5933

Alpha Resources, Inc.  
P.O. Box 199  
Stevensville, MI 49127  
Phone: 269-465-5559

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Information for specific product ingredients as required by the US OSHA HAZARDOUS COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

### HAZARDOUS INGREDIENTS

CAS#	Chemical Name
7632-00-0	Sodium Nitrite: Oxidizer; toxic (by ingestion); irritant; potential blood toxin
10555-76-7	Boric Acid Sodium Salt Tetrahydrate: potential irritant (eyes and respiratory)
149-30-4	2-Mercaptobenzothiazole: irritant; potential sensitizer

No component is considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the OSHA at OSHA thresholds for carcinogens.

## 3. HAZARD IDENTIFICATION

Warning: May cause slight irritation to the skin. Potential skin sensitizer. Severe irritant to the eyes. Mists/aerosols may cause irritation to upper respiratory tract.

EYES: Severe irritant to the eyes.

INHALATION: Mists/aerosols may cause irritation to the upper respiratory tract.

SKIN: Primary route of exposure; May cause slight irritation to the skin. Potential skin sensitizer.

INGESTION: May cause gastrointestinal irritation.

MEDICATL CONDITIONS AGGRAVATED: Not knows.

TARGET ORGANS: Prolonged or repeated exposures may cause CNS depression, primary irritant dermatitis, skin sensitization, and/or toxicity to the blood.

SYPMTOMS OF EXPOSURE: May cause redness or itching of skin, irritation and/or tearing of the eyes (direct contact).

## 4. FIRST AID MEASURES

EYES: Immediately flush eyes with water for 15 minutes. Immediately contact a physician for additional treatment.

SKIN: Remove contaminated clothing. Wash exposed area with a large quantity of soap solution or water for 15 minutes.

INHALATION: Remove victim from contaminated area to fresh air. Apply appropriate first aid treatment as necessary.

INGESTION: Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 3 – 4 glasses of milk or water.

## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES

Flash Point: > 200 F

Flammable Limits: (% by Volume in Air): Lower: None Upper: None

AUTO-IGNITION TEMPERATURE: N/A

HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition yields elemental oxides.

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, foam or water.

FIREFIGHTING INSTRUCTIONS: Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).

## 6. ACCIDENTAL RELEASE MEASURES

PROTECTION AND SPILL CONTAINMENT: Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.

DISPOSAL INSTRUCTIONS: Water contaminated with this product may be sent to a sanitary sewer treatment facility, in accordance with any local agreement, a permitted water treatment facility or discharge under a permit. Product as is – incinerate or land dispose in an approved landfill.

## 7. HANDLING AND STORAGE

HANDLING: Contains an oxidizer. Avoid all contact with reducing agents, oils, greases and organics. Do not allow to dry.

STORAGE: Keep containers closed when not in use. Reasonable and safe chemical storage. Keep dry.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL NAME	PEL (OSHA)	TLV (ACGIH)
Sodium Nitrite	ND	ND
Boric Acid Sodium Salt Tetrahydrate	ND	ND
3-Mercaptobenzothiazole	ND	ND

ND = Not Determined

ENGINEERING CONTROLS: Adequate ventilation to maintain air contaminants below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT: Use protective equipment in accordance with 29CFR 1910 Subpart I.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA's 29CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Use air purifying respirators within use limitations associated with the equipment or else use supplied air-respirators. If air-purifying respirator use is appropriate, use a respirator with dust/mist filters.

SKIN AND HAND PROTECTION: Neoprene gloves – wash off after each use. Replace as necessary.

EYE AND FACE PROTECTION: Splash-proof chemical goggles.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Red liquid.

BOILING POINT: Not determined

FREEZE-MELT POINT: 28 F (-2 C)

VAPOR PRESSURE: 18 mmHG

VAPOR DENSITY(air = 1): <1.00

SOLUBILITY IN WATER: 100%

SPECIFIC GRAVITY: 1.052

pH: 12.3

ODOR: Slight

PERCENT VOLATILES: N/A

EVAPORATION RATE (Ether = 1): <1.00

FLASH POINT: >200 F (>93 C)

## **10. STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable under normal conditions of storage.

INCOMPATIBILITY: May react with strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition (destructive fires) yields elemental oxides.

HAZARDOUS POLYMERIZATION: None.

## **11. TOXICOLOGICAL INFORMATION**

Oral LD50 Rat: >2000 mg/kg (estimated value)

Dermal LD50 Rabbit: >2000 mg/kg (estimated value)

## **12. ECOLOGICAL INFORMATION**

Aquatic Toxicology: Not data available.

Biodegradation: No data available.

## **13. DISPOSAL CONSIDERATION**

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is: not applicable.

Please consult state and local regulations regarding the proper disposal of this material.

## **14. TRANSPORTATION INFORMATION**

USA DOT: Not regulated.

## **15. REGULATORY INFORMATION**

US FEDERAL REGULATIONS

TSCA STATUS: On toxic Substance Control Inventory

CERCLA Reportable Quantity: Sodium Nitrite, 298 gallons

RCRA Status: Not regulated

SARA TITLE III:

Section 302 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: Immediate (acute); Delayed (chronic)

Section 313 Toxic Chemicals: Sodium Nitrite (2.0 – 5.0%), 2-Mercaptobenzothiazole (1.0 – 1.5%)

CALIFORNIA REGULATORY INFORMATION: No Regulated Constituent.

MICHIGAN REGULATORY INFORMATION: No Regulated Constituent.

CANADAIN REGULATIONS

None known

## **16. OTHER INFORMATION**

### **SUPPLEMENTAL INFORMATION**

The data and information as stated was furnished by the manufacturer/vendor &/or supplier of this product. Alpha Resources, Inc. cannot warrant the accuracy of this information and shall not be responsible or liable for any damage that may result, should any of the information be erroneous.

Date Prepared: December 5, 2011

Prepared by: Scot Burns