

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND CONTACT INFORMATION

Product Name: Nitrite Free Coolant Concentrate

AM1108, AM1109

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

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	%W	CHEMICAL NAMES	OSHA PEL (mg/m3)	ACGIH TLV (mg/m3)	NIOSH TWA (mg/m3)
102-71-6	10	Triethanolamine	2	2	N/A
7732-18-5	90	Water	N/A	N/A	N/A

## 3. HAZARD IDENTIFICATION

### POTENTIAL HEALTH EFFECTS

EYES: This product is not expected to cause eye irritation under normal conditions of use. Symptoms of mild eye irritation and redness may result upon direct contact or when exposed to high mist levels in poorly ventilated areas.

SKIN: Skin contact may result in slight, temporary irritation.

INHALATION: This product has a low volatility and so is not expected to cause respiratory tract irritation during normal conditions of use. Exposure to high mist levels in poorly ventilated areas may irritate the upper respiratory tract with symptoms of itching eyes and nasal passages.

INGESTION: Ingestion may cause slight stomach irritation and discomfort.

CHRONIC OVEREXPOSURE: Not available.

ACUTE OVEREXPOSURE: Not available.

MEDICAL CONDITIONS AGGRAVATED: Not available.

CARCINOGENICITY: None.

## 4. FIRST AID MEASURES

EYES: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. If symptoms persist, contact a physician.

INHALATION: If signs or symptoms of overexposure occur, remove the employee to fresh air. If symptoms persist, seek medical attention.

SKIN: Remove product from the skin by washing with a mild soap and flushing with a steady stream of water. Contaminated clothing should be removed to prevent prolonged exposure. If symptoms of exposure persist, contact a physician.

INGESTION: If small amounts are ingested, first aid measures are not likely to be necessary. If larger amounts are ingested or if symptoms of ingestion occur, dilute stomach contents with two glasses of water or milk. (Note: Do NOT give anything by mouth to an unconscious person.) Do not induce vomiting without medical supervision. If vomiting occurs spontaneously, keep airway clear. If symptoms of ingestion persist, seek medical attention.

## 5. FIRE FIGHTING MEASURES

## FLAMMABLE PROPERTIES

Non-flammable

Flash Point: Not available

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

AUTO-IGNITION TEMPERATURE: N/A

HAZARDOUS COMBUSTION PRODUCTS: Not available.

EXTINGUISHING MEDIA: This product is not combustible but water fog, dry chemical, foam, and CO2 fire extinguishers may be used in areas where it is stored.

FIREFIGHTING INSTRUCTIONS: The non-combustible nature of the product creates no need for special fire fighting procedures and equipment.

## 6. ACCIDENTAL RELEASE MEASURES

SMALL/LARGE SPILL: If possible, safely contain the spill with dikes or other spill response equipment appropriate for releases of water-based materials. Prevent spreading of product and/or release into the environment. Large volumes of material should be collected in an appropriate waste container for proper disposal. Small volumes of residues may be soaked up with absorbent material. Disposal of any spill response materials should meet appropriate waste regulations.

## 7. HANDLING AND STORAGE

HANDLING: As with any industrial chemical, handle the product in a manner that minimizes exposure to practicable levels. Prior to handling, consult Section 8 of this MSDS to evaluate personal protective equipment needs. Open containers slowly to relieve any pressure. Follow all other standard industrial hygiene practices.

STORAGE: Protect product quality by storing indoors and away from extreme temperatures. Close all containers when not in use.

SPECIAL COMMENTS: Do not mix with nitrites. This product contains an amine that may react, under certain conditions, with nitrites to form nitrosamines.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Normal general ventilation is expected to be adequate. It is recommended that ventilation be designed in all instances to maintain airborne concentrations at lowest practicable levels. Ventilation should at a minimum, prevent airborne concentrations from exceeding any exposure limits listed in Section 2 of this MSDS.

RESPIRATORY PROTECTION: A respiratory may be worn to reduce exposure to vapors, dust or mist. Select a NIOSH/MSHA approved respirator appropriate for the type and physical character of the airborne material. A self-contained breathing apparatus is recommended in all situations where airborne contaminant concentration has not been confirmed to be below safe levels. Respirator use should comply with the OSHA Respirator Protection Standard found in 29 CFR 1910.134.

SKIN AND HAND PROTECTION: Gloves are not normally needed during normal conditions of use. If health effects are experienced, oil or chemical resistant gloves such as butyl or nitrile are recommended.

EYE AND FACE PROTECTION: Wear eye protection appropriate to prevent eye exposure. Where splashing is not likely, chemical safety glasses with side shields are recommended. Where splashing may occur, chemical goggles or full face shield is recommended.

OTHER PROTECTIVE EQUIPMENT: as required.

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

APPEARANCE: Blue Liquid  
BOILING POINT: N/A  
FREEZE-MELT POINT: N/A  
VAPOR PRESSURE: N/A  
VAPOR DENSITY: N/A  
SOLUBILITY IN WATER: Soluble.  
SPECIFIC GRAVITY: 1.06  
pH: N/A  
ODOR: slight perfume  
PERCENT VOLATILES: N/A  
EVAPORATION RATE: N/A

## **10. STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Product is stable.  
INCOMPATIBILITY: This product is incompatible with strong oxidizing agents.  
HAZARDOUS DECOMPOSITION PRODUCTS: The product, as sold, is not expected to thermally decompose. Product residue however, may burn. Thermal decomposition products are highly dependent on combustion conditions. A complex mixture of airborne solid, liquid, particulates and gasses may evolve when the residues burn. Byproducts of residue combustion may include: oxides of carbon, ammonia and oxides of nitrogen, incompletely burned hydrocarbons as fumes and smoke.  
HAZARDOUS POLYMERIZATION: None.

## **11. TOXICOLOGICAL INFORMATION**

No data available.

## **12. ECOLOGICAL INFORMATION**

No data available

## **13. DISPOSAL CONSIDERATION**

Dispose of in accordance with federal, state and local regulations.

Ensure that collection, transport, treatment and disposal of waste product, containers and rinsate complies with all applicable laws and regulations. Note that use, mixture, processing or contamination of the product may cause the material to be classified as a hazardous waste. It is the responsibility of the product user to determine at the time of disposal, where the product is regulated as a hazardous waste.

## **14. TRANSPORTATION INFORMATION**

USA DOT: Not regulated

## **15. REGULATORY INFORMATION**

US FEDERAL REGULATIONS  
TSCA STATUS: On toxic Substance Control Inventory  
CERCLA Reportable Quantity: None

RCRA Status: Not regulated

SARA TITLE III:

Section 302 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: None

## **16. OTHER INFORMATION**

Hazard Index: (0-4, 4= Extreme)

Health: 1    Fire: 0    Reactivity: 0

### **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.

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