

# Alpha Resources Inc.

## SAFETY DATA SHEET

SDS# 122

Revision Date:6/16/15

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### SECTION 1: PRODUCT/COMPANY IDENTIFICATION

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Name Zinc 1,000 mg/L in 2% HNO<sub>3</sub>, 250 mL

Catalog Number APS-100068-1

Recommended Use and Restrictions on Use: For laboratory use only. Product should be handled only by properly trained laboratory personnel. Not for human consumption.

Manufacturer:

Alpha Resources Inc.  
 3090 Johnson Rd.  
 Stevensville, MI 49127  
 269-465-5559  
 www.alpharesources.com

For Chemical Emergency, Spill, Leak, Fire Exposure or Accident  
 Call CHEMTREC Day or Night  
 Within USA and Canada: 1-800-424-9300  
 Outside USA and Canada: +1 703-527-3887 (Collect Calls Accepted)

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### SECTION 2: HAZARDS IDENTIFICATION

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All chemicals should be considered hazardous. Direct Physical contact should be avoided.

#### OSHA Hazards

Target Organs Eyes, skin, respiratory system, teeth

GHS Classification Skin irritation (Category 2), H315  
 Eye irritation (Category 2A), H319  
 Acute aquatic toxicity (Category 3), H402  
 Chronic aquatic toxicity (Category 3), H412

Signal Word Warning

#### Pictogram



Hazard H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements P264 Wash skin thoroughly after handling.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/ eye protection/ face protection.  
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P321 Specific treatment (see supplemental first aid instructions on this label).  
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
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 P337 + P313 If eye irritation persists: Get medical advice/ attention.  
 P362 Take off contaminated clothing and wash before reuse.  
 P501 Dispose of contents/ container to an approved waste disposal plant.

#### HMIS Classification

Health 2  
 Chronic  
 Flammability 0

Physical Hazard 0

## Potential Health Effects

Inhalation May cause respiratory tract irritation  
 Skin Substance may cause slight skin irritation  
 Eyes Conjunctivitis, corneal ulcers and necrosis, corneal opacity  
 Ingestion If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

## SECTION 3: COMPOSITION/INGREDIENTS INFO

Formula Solution

Molecular Weight NA

Synonyms Aqua fortis, Engravers acid, Hydrogen nitrate

<u>Component</u>	<u>CAS #</u>	<u>EC #</u>	<u>Index #</u>	<u>Composition</u>
Nitric Acid	7697-37-2	231-714-2	007-004-00-1	2 - 14%

Zinc Metal	1000 mg/L
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## SECTION 4: FIRST AID MEASURES

General Advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.  
 Inhalation Remove to fresh air, give artificial respiration if breathing has stopped only if you have been trained to do so. Consult a physician.  
 Skin Remove contaminated clothes and shoes immediately. Soap wash promptly. Consult a physician.  
 Eyes Immediately flush with water for 15 minutes. Consult a physician.  
 Ingestion Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical help immediately.  
 Medical Symptoms irritation eyes, skin, mucous membrane; delayed pulmonary edema, pneumonitis, bronchitis; dental erosion

Nitric acid can be corrosive to the skin, eyes, nose, mucous membranes, respiratory and gastrointestinal tracts, or any tissue with which it comes in contact. Severe burns can occur with necrosis and scarring. Milder exposures can cause irritation of the eyes, skin, mucous membranes and respiratory and digestive

## SECTION 5: FIRE FIGHTING MEASURES

Conditions of Flammability Noncombustible Liquid, but increases the flammability of combustible materials  
 Suitable Extinguishing Agents  
 Do Not Use  
 Personal Protection Equipment for Firefighters  
 Hazardous Decomp Products Nitrogen oxides (NOx)

## SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Wear respiratory protection when air monitoring results indicate dangerous levels of chemical vapor. Ensure adequate ventilation. Evacuate any area where dangerous levels of vapor may accumulate.  
 Environmental Containment & Cleanup Prevent further leakage or spillage only when it is safe to do so. Prevent product from entering drains. Contain spillage. Collect spilled product and any absorbent material with an electrically protected vacuum cleaner or by wet-brushing. Place in container for disposal according to applicable regulations.

## SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling  
 Conditions for Safe Storage Keep closed containers in a dry and well-ventilated storage location. Containers that have been opened for use should be completely resealed and kept upright to prevent leakage. See product Certificate of Analysis for detailed storage conditions.  
 Incompatible With Alkali metals, Organic materials, Acetic anhydride, Acetonitrile, Alcohols, Acrylonitrile, Ammonia, Crotonaldehyde, Halogenated hydrocarbon, Acids, Bases, Metals, hexalithium disilicide, Hydrogen peroxide, Ketones,

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with Control Parameters	Nitric Acid
PEL:	2 ppm
REL:	2 ppm
Short Term	4 ppm
Long Term	
TLV:	4 ppm
Short Term	
Long Term	
Personal Protection Equipment	
Hygiene	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
Respiratory	Use in a well ventilated area or in a properly functioning fume hood. A full face respirator may be used as a backup to engineering controls.
Hand	Wear gloves. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash hands regularly.
Eye	Use face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin	Wear chemical resistant clothing to avoid skin contact with this material. The use of a lab coat is recommended.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance			
Form	Liquid		
Color	No Data Available		
Odor	No Data Available		
Safety Data			
pH	NA		
Freezing Pt	0 C	Vapor Pressure	No Data Available
Boiling Pt	100 C	Density	No Data Available
Flash Pt	No Data Available	Vapor Density	No Data Available
Ignition Temp	No Data Available	Water Solubility	completely miscible
Autoignition Temp	No Data Available	Evaporation Rate	No Data Available
LEL	No Data Available	Partition Coefficient	No Data Available
UEL	No Data Available	Odor Threshold	No Data Available

## SECTION 10: STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions. See Certificate of Analysis.
Possibility of Hazardous Reactions	No Data Available
Hazardous Decomp	Nitrogen oxides (NOx)
Conditions to Avoid	Reacts with water to produce heat. Corrosive to metals. Noncombustible Liquid, but increases the flammability of combustible materials.
Materials to Avoid	Alkali metals, Organic materials, Acetic anhydride, Acetonitrile, Alcohols, Acrylonitrile, Ammonia, Crotonaldehyde,

## SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity (LD/LC50)	<u>Component</u> Nitric Acid	<u>LD/LC 50</u> Oral: LC50 Rat: 130 mg/kg/4H
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Likely Routes of Exposure	inhalation, ingestion, skin and/or eye contact
Skin	No Data Available
Eyes	No Data Available
Respiratory	No Data Available
Sensitization	No Data Available
Carcinogenicity	No Data Available
Teratogenicity	No Data Available
Specific Target Organ Toxicity	
Single Exposure	No Data Available
Multiple Exposure	No Data Available
Additional	No Data Available

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**SECTION 12: ECOLOGICAL INFORMATION**


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Toxicity	No Data Available
Persistence & Degradability	No Data Available
Bioaccumulative Potential	No Data Available
Mobility in Soil	No Data Available
PBT and vPvB	No Data Available
Other	No Data Available

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**SECTION 13: DISPOSAL CONSIDERATIONS**


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Product	Offer unused or expired solutions to a licensed, professional and reputable waste disposal company. Waste associated with this product is not intended for standard sewage disposal. Follow all Federal, State, and local regulations when disposing of this material. See Section 8 of this SDS for exposure control and personal protection information prior to handling waste.
Packaging	Dispose of contaminated packaging as unused product.

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**SECTION 14: TRANSPORTATION INFORMATION**


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Shipping Name	Corrosive liquid acidic, inorganic, n.o.s.
UN Number	UN 3264
Shipping Class	8
Packing Group	III
Marine Pollutant DOT	
Marine Pollutant IMDG	
EMS #	

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**SECTION 15: REGULATORY INFORMATION**


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OSHA Hazards	
SARA 302	Nitric acid CAS-No. 7697-37-2
SARA 313	Nitric acid CAS-No. 7697-37-2
SARA 311/312	
Acute Health	YES
Chronic Health	YES
Fire	
Sudden Release	
Reactive	
California Prop 65	<u>Compound</u> <span style="float: right;"><u>CAS No</u></span>

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**SECTION 16: OTHER INFORMATION**


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This material should be used only by personnel trained in good laboratory practices and in handling hazardous substances.

The above information has been gathered from various technical sources and is believed to be accurate to the best of our knowledge but does not claim to be all inclusive. The data given is for informational purposes only and is intended to be used by personnel with the appropriate technical training to properly interpret the data. Since storage conditions and the way the product is

used are out of our control, we make NO EXPRESSED OR IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS, OR OTHERWISE.