# SAFETY DATA SHEET

## **SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION**

**Product ID:** 494645

Product Name: Anti-Seize Copper

 Revision Date:
 Aug 03, 2023
 Date Printed:
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 Version:
 2.0
 Supersedes Date:
 Aug 06, 2019

Manufacturer's Name: Zenex International

Address: One Zenex Circle Cleveland, OH, US, 44146

Emergency Phone: 1-800-535-5053 Information Phone Number: (440)232-4155

Fax:

Product/Recommended Uses: Anti-Seize Copper

## **SECTION 2) HAZARDS IDENTIFICATION**

## Classification

Aerosols - Category 1

Gases Under Pressure - Liquefied Gas

Aspiration Hazard - Category 1

Carcinogenicity - Category 1A

Eye Irritation - Category 2A

Germ Cell Mutagenicity - Category 1B

Skin Irritation - Category 2

Specific Target Organ Toxicity -Single Exposure (Narcotic Effects) - Category 3

## **Pictograms**









## **Signal Word**

Danger

## **Hazardous Statements - Physical**

H222 - Extremely flammable aerosol.

H280 - Contains gas under pressure; may explode if heated.

## **Hazardous Statements - Health**

H304 - May be fatal if swallowed and enters airways.

H350 - May cause cancer.

H319 - Causes serious eye irritation.

H340 - May cause genetic defects.

H315 - Causes skin irritation.

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### **Precautionary Statements - General**

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.

#### **Precautionary Statements - Prevention**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P280 Wear protective gloves, protective clothing, eye protection and face protection.
- P264 Wash hands thoroughly after handling.
- P261 Avoid breathing mist, vapors or spray.
- P271 Use only outdoors or in a well-ventilated area.

### **Precautionary Statements - Response**

- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P331 Do NOT induce vomiting.
- P308 + P313 IF exposed or concerned: Get medical attention.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

### Continue rinsing.

- P337 + P313 If eye irritation persists: Get medical attention.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P332 + P313 If skin irritation occurs: Get medical attention.
- P362 + P364 Take off contaminated clothing and wash it before reuse.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER or doctor if you feel unwell.

### **Precautionary Statements - Storage**

- P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50  $^{\circ}$ C/122  $^{\circ}$ F.
- P403 + P405 Store in a well-ventilated place. Store locked up.

## **Precautionary Statements - Disposal**

P501 - Dispose of contents and container in accordance with local, regional, national and international regulations.

## **SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS**

CAS	Chemical Name	% By Weight
0000067-64-1	ACETONE	25% - 50%
0068476-86-8	Petroleum gases, liquefied, sweetened	15% - 30%
0000106-97-8	BUTANE	5% - 15%
0000142-82-5	N-HEPTANE	5% - 10%
0064742-47-8	ISOPARAFFINIC PETROLEUM DISTILLATE	5% - 10%
0000074-98-6	PROPANE	2% - 5%
0007440-50-8	COPPER	Trace

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

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## **SECTION 4) FIRST-AID MEASURES**

#### **Inhalation**

Remove source of exposure or move person to fresh air and keep comfortable for breathing. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor. If breathing has stopped, trained personnel should begin rescue breathing or, if the heart has stopped, immediately start cardiopulmonary resuscitation (CPR) or automated external defibrillation (AED). If you feel unwell/lf concerned: Get medical advice/attention.

### **Eye Contact**

Rinse eyes cautiously with lukewarm, gently flowing water for 15 minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

### **Skin Contact**

Wipe off with a towel. Wash with soap and water. Get medical attention if irritation persists.

### Ingestion

Ingestion is not a likely route of exposure. Get medical attention if you feel unwell.

### Most Important Symptoms/Effects, Acute and Delayed

No data available.

## **Indication of Immediate Medical Attention and Special Treatment Needed**

No data available.

## **SECTION 5) FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media

Foam, alcohol foam, carbon dioxide, dry chemical, water fog.

### **Unsuitable Extinguishing Media**

Water may be ineffective but can be used to cool containers exposed to heat or flame.

### **Specific Hazards in Case of Fire**

Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents. Liquid content of container will support combustion. Overexposure to decomposition products may cause a health hazard. Symptoms may not be readily apparent. Obtain medical attention. Hazardous decomposition products include carbon dioxide, carbon monoxide, and other toxic fumes.

### **Fire-fighting Procedures**

Water may be used to cool containers to prevent pressure build-up and explosion when exposed to extreme heat.

## **Special Protective Actions**

Wear goggles and use a self-contained breathing apparatus. If water is used, fog nozzles are preferred.

## **SECTION 6) ACCIDENTAL RELEASE MEASURES**

## **Emergency Procedure**

Avoid breathing vapors. Ventilate area. Remove all sources of ignition.

## **Recommended Equipment**

Wear safety glasses with side shields. Use of gloves approved from relevant standards that meet or are equivalent to OSHA 29 CFR 1910.132.

#### **Personal Precautions**

Avoid breathing vapors. Ventilate area.

## **Environmental Precautions**

Stop spill/release if it can be done safely.

### Methods and Materials for Containment and Cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

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## **SECTION 7) HANDLING AND STORAGE**

## **General**

Do not puncture or incinerate (burn) cans. Do not stick pins, nails, or any other sharp objects into opening on top of can. Do not spray in eyes. Do not take internally.

### **Ventilation Requirements**

Use in a well-ventilated place.

### **Storage Room Requirements**

Store and use in a cool, dry, well-ventilated area. Do not store above 120°F. See product label for additional information.

## **SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION**

## **Eye protection**

Wear safety glasses with side shields. Eyewash stations and showers should be available in areas where this material is used and stored.

### **Skin Protection**

Use solvent-resistant protective gloves for prolonged or repeated contact.

### **Respiratory protection**

Avoid breathing vapors. In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapor. In confined areas, use an approved air line respirator or hood. A self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.

## **Appropriate Engineering Controls**

Ventilation should be sufficient to prevent inhalation of any vapors.

Chemical Name	OSHA TWA (mg/m3)	OSHA TWA (ppm)	OSHA STEL (mg/m3)	OSHA Carcinogen	OSHA Skin designation	OSHA Tables (Z1, Z2, Z3)	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)
ACETONE	2400	1000				1		250
BUTANE								
COPPER	[0.1]; [1 (a)];					1	[0.2]; [1];	
ISOPARAFFINI C PETROLEUM DISTILLATE	2000	500				1	[(L)[N159](L) [N800]]; [5 (I) [N159]5 (I) [N800]];	(L)[N159](L) [N800]
N-HEPTANE	2000	500				1		400
Petroleum gases, liquefied, sweetened	2000	500				1		
PROPANE	1800	1000				1		

Chemical Name	NIOSH STEL (ppm)	ACGIH STEL (mg/m3)	ACGIH STEL (ppm)	ACGIH Carcinogen	ACGIH TLV Basis	ACGIH Notations	NIOSH TWA (mg/m3)	NIOSH TWA (ppm)
ACETONE			500	A4	URT & eye irr; CNS impair	A4; BEI	590	250
BUTANE			1000 (EX)		CNS impair		1900	800
COPPER					Irritation; GI; metal fume fever		0.1,1a	
ISOPARAFFINI C PETROLEUM DISTILLATE				[A2[N159]A2 [N800]]; [A4 [N159]A4 [N800]];	URT irr [N159]URT irr [N800]	[A2[N159]A2 [N800]]; [A4 [N159]A4 [N800]];		
N-HEPTANE			500		CNS impair;		350	85

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			URT irr		
Petroleum gases, liquefied, sweetened					
PROPANE	а	Simple asphyxiant (D), explosion hazard (EX)	Asphyxia	1800	1000

Chemical Name	NIOSH STEL (mg/m3)	OSHA STEL (ppm)	NIOSH Carcinogen
ACETONE			
BUTANE			
COPPER			
ISOPARAFFINI C PETROLEUM DISTILLATE			
N-HEPTANE			
Petroleum gases, liquefied, sweetened			
PROPANE			

<sup>(</sup>C) - Ceiling limit, A4 - Not Classifiable as a Human Carcinogen, BEI - Substances for which there is a Biological Exposure Index or Indices, CNS - Central nervous system, GI - Gastrointestinal, impair - Impairment, irr - Irritation, URT - Upper respiratory tract

## **SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES**

## **Physical and Chemical Properties**

Density	6.22 lb/gal
Density VOC	2.79 lb/gal
% VOC	40.0%
Appearance	N.A.
Odor Threshold	N.A.
Odor Description	N.A.
pH	N.A.
Water Solubility	N.A.
Flammability	N.A.
Vapor Pressure	N.A.
Flash Point	N.A.
Viscosity	N.A.
Lower Explosion Level	N.A.
Upper Explosion Level	N.A.
Vapor Density	N.A.
Melting Point	N.A.
Freezing Point	N.A.
Low Boiling Point	N.A.
High Boiling Point	N.A.

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Decomposition Pt N.A.

Auto Ignition Temp N.A.

Evaporation Rate N.A.

## **SECTION 10) STABILITY AND REACTIVITY**

### **Stability**

The product is stable under normal storage conditions.

### **Conditions To Avoid**

High temperatures.

## **Incompatible Materials**

No data available.

## **Hazardous Reactions/Polymerization**

None known.

## **Hazardous Decomposition Products**

Hazardous decomposition products may include carbon dioxide, carbon monoxide, and other toxic fumes.

## **SECTION 11) TOXICOLOGICAL INFORMATION**

### **Skin Corrosion/Irritation**

Causes skin irritation.

## **Likely Route of Exposure**

Inhalation, ingestion, skin absorption.

## Serious Eye Damage/Irritation

Causes serious eye irritation.

## Carcinogenicity

May cause cancer.

## **Germ Cell Mutagenicity**

May cause genetic defects.

### **Reproductive Toxicity**

Based on available data, the classification criteria are not met.

#### **Respiratory/Skin Sensitization**

Based on available data, the classification criteria are not met.

## **Specific Target Organ Toxicity - Single Exposure**

May cause drowsiness or dizziness

## **Specific Target Organ Toxicity - Repeated Exposure**

Based on available data, the classification criteria are not met.

## **Aspiration Hazard**

May be fatal if swallowed and enters airways

## **Acute Toxicity**

Based on available data, the classification criteria are not met.

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### **Likely Routes of Exposure**

Inhalation, Ingestion, Skin contact, Eye contact

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

#### Potential Health Effects - Miscellaneous

### 0000067-64-1 ACETONE

The following medical conditions may be aggravated by exposure: lung disease, eye disorders, skin disorders. Overexposure may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, respiratory system, skin.

#### 0000142-82-5 N-HEPTANE

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, respiratory system, skin. May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

## **SECTION 12) ECOLOGICAL INFORMATION**

### **Toxicity**

Based on available data, the classification criteria are not met.

### **Persistence and Degradability**

No data available.

#### **Bioaccumulative Potential**

No data available.

## **Mobility in Soil**

No data available.

#### Other Adverse Effects

No data available.

### Results of the PBT and vPvB assessment

No data available.

## **SECTION 13) DISPOSAL CONSIDERATIONS**

### **Waste Disposal**

Under RCRA, it is the responsibility of the user of the product, to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

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# **SECTION 14) TRANSPORT INFORMATION**

	U.S. DOT Information	IMDG Information	IATA Information
UN number:	UN1950	UN1950	UN1950
Proper shipping name:	Aerosols, flammable, (each not exceeding 1 L capacity) (LTD QTY	Aerosols, flammable (LTD QTY)	Aerosols, flammable (LTD QTY)
Hazard class:	2.1	2.1	2.1
Packaging group:	NA	NA	NA
Hazardous substance (RQ):	No Data Available		
Marine Pollutant:	No Data Available	No Data Available	
Note / Special Provision:	No Data Available	No Data Available	No Data Available
Toxic-Inhalation Hazard:	No Data Available		

# **SECTION 15) REGULATORY INFORMATION**

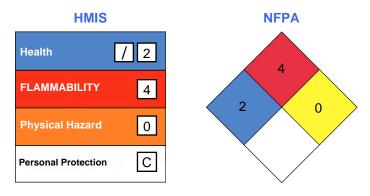
CAS	Chemical Name	% By Weight	Regulation List
0000067-64-1	ACETONE	25% - 50%	CERCLA, SARA312, TSCA, RCRA, ACGIH, OSHA
0068476-86-8	Petroleum gases, liquefied, sweetened	15% - 30%	SARA312, TSCA, OSHA
0000106-97-8	BUTANE	5% - 15%	SARA312, VOC, TSCA, ACGIH
0000142-82-5	N-HEPTANE	5% - 10%	SARA312, VOC, TSCA, ACGIH, OSHA
0064742-47-8	ISOPARAFFINIC PETROLEUM DISTILLATE	5% - 10%	SARA312, VOC, TSCA, ACGIH, OSHA
0000074-98-6	PROPANE	2% - 5%	SARA312, VOC, TSCA, ACGIH, OSHA
0007440-50-8	COPPER	Trace	SARA313, CERCLA, SARA312, TSCA, RCRA, ACGIH, OSHA,

# **SECTION 16) OTHER INFORMATION**

**Glossary** 

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ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL-Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ- Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA- Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.



(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

#### Version 2.0:

Revision Date: Aug 03, 2023

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