

Material Safety Data Sheet

Section 1 Product and Company Identification

Product Name: **E-Z Break Aerosol Anti-Seize, Copper Grade**
Revision #: 2.1 Date Prepared: July 23, 2007 Date Revised: February 5, 2010

Manufacturer:

**LA-CO INDUSTRIES, Inc./Markal
Co.**

1201 Pratt Blvd.

Elk Grove Village, IL, USA 60007-5746

Information Telephone: 847-956-7600

Emergency Telephone: Call CHEMTREC

USA 800-424-9300

International (Call Collect) 1-703-527-3887

Chemical Formula: Mixture

CAS No.: Not Applicable. **Derivation:** Not Applicable.

Synonyms: Not Applicable.

General Use: High Temperature Anti-Seize Lubricating Compound.

Supplier/Importer:

Section 2 Composition/Information on Ingredients

<u>Ingredient</u>	<u>CAS No.</u>	<u>%</u>
Copper ^{1,3,4,5,6} ACGIH: TWA (dust) = 1 mg/m ³ OSHA: TWA (dust) = 1 mg/m ³ EPA: CERCLA RQ = 5000 lbs.; EPCRA sec. 313 de minimus concentration = 1.0%	7440-50-8	5 - 8
Aluminum ^{1,3,5,6} ACGIH: TWA (dust) = 10 mg/m ³ OSHA: TWA (dust) = 15 mg/m ³	7429-90-5	1 - 3
Heptane ^{3,4,5} ACGIH: TLV-TWA = 400 ppm OSHA: PEL-TWA = 500 ppm	142-82-5	20 - 26
Propane ^{3,4,5} ACGIH: TLV-TWA = 2500 ppm OSHA: PEL-TWA = 1000 ppm	74-98-6	15 - 21
N-Butane ^{3,4,5} ACGIH: TLV-TWA = 800 ppm OSHA: PEL-TWA = 800 ppm	106-97-8	5 - 8

(For Section 2 footnotes: See Section 15)

Section 3 Hazards Identification

EMERGENCY OVERVIEW: Copper colored paste.

POTENTIAL HEALTH EFFECTS

Primary Exposure Routes: Eyes

Acute Effects

Eyes: May cause minor eye discomfort from direct contact.

Skin: Not applicable.

Ingestion: May lead to gastro-intestinal irritation.

Inhalation: Exposure to high concentrations of vapors may cause drowsiness, breathing difficulty, respiratory irritation or headaches. Intentional misuse by deliberately concentrating and inhaling the

contents may be harmful or fatal.

Chronic Effects

Eyes: Not Determined.

Skin: Not Determined.

Ingestion: Not Determined.

Inhalation: Not Determined.

Carcinogenicity: Not Applicable.

Target Organ Effects: Not Applicable.

Medical Conditions Aggravated by Long-Term Exposure: Not Determined.

Other Information: Not Applicable.

Section 4 First Aid

Eye Contact: Flush eyes with plenty of water for at least 15 minutes.

Skin Contact: Wash exposed skin with soap and water.

Ingestion: If large amounts are swallowed, consult a physician. Do not induce vomiting.

Inhalation: If adverse effects occur, remove to uncontaminated area. Get medical attention.

Other Information: Not Applicable

Section 5 Fire Fighting Measures

Flash Point (method): <-0°F / <-18°C

Autoignition Temperature: Not Determined.

LEL: Not Determined. **UEL:** Not Determined.

Flammability Classification: Class B

Extinguishing Media: Dry chemical, carbon dioxide (CO₂), halogenated agents, foam, steam, or water fog.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide and other harmful products.

Unusual Fire or Explosion Hazards: Not applicable.

Fire-Fighting Instructions/Equipment: Keep personnel removed and upwind of any fire. Wear full fire-fighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

Section 6 Accidental Release Measures

Caution: Spill area may be slippery. Use recommended personal protective equipment (see Section 8).

Small Spill: Scrape up, remove residue.

Large Spill: Contain on an absorbent material (e.g., sand, sawdust, dirt, clay). Remove residue. Keep out of sewers and waterways.

Other Information: Ventilate the area.

Section 7 Handling and Storage

Handling Precautions: Use recommended personal protective equipment (see Section 8). Wash thoroughly after handling. Vapors may ignite explosively. Prevent buildup of vapors. Keep from sparks, heat, flame, or other heat sources. Do not smoke. Turn off pilot lights, heaters, electric motors, and other sources of ignition during use and until all vapors are gone. Do not puncture or incinerate container.

Storage Requirements: Store away from incompatible chemicals (see Sec. 10). Store in a cool, dry area.

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Section 8 Exposure Controls/Personal Protection

Eye/Face Protection: Safety glasses or goggles recommended.
Skin/Hand Protection: Not applicable.
Respiratory Protection: Not applicable.
Other Equipment: Eye wash and safety shower.
Engineering Controls: Normal room ventilation. Local exhaust in confined areas.
Administrative Controls: Users of this product must be properly trained and qualified in its use.
Other Information: Not applicable.

Section 9 Physical and Chemical Properties

Appearance/Physical State: Aerosol – pressurized liquid. Copper to silver/gray colored paste.
Odor: Oil-like.
Odor Threshold (ppm): Not Determined.
Specific Gravity (H₂O = 1): 0.855 @ 15 C
Solubility - Water: Insoluble
- Fat: Soluble
Coefficient of Water/Oil Solubility: <<1
Partition Coefficient (n-octanol/water): >>1
pH: Not applicable.
Melting Point: Not Determined.
Boiling Point: Not Determined.
Vapor Pressure (mm Hg at 20⁰C): Approximately 50 psig
Vapor Density (Air = 1): Not determined.
Evaporation Rate: Faster than ether
V.O.C.: 44%(w/w)
Flash Point (method): (see Section 5)
Autoignition Temperature: (see Section 5)
Flammability Classification: (see Section 5)
Unusual Fire or Explosion Hazards: (see Section 5)
Oxidizing Properties: Not Applicable.
Other Information: None.

Section 10 Stability and Reactivity

Chemical Stability: Stable
Hazardous Polymerization: Will Not Occur
Conditions to Avoid: None Known.
Chemicals to Avoid: Oxidizers
Hazardous Decomposition Products (non-thermal): Not Determined.

Section 11 Toxicological Information

Sensitization to Product: Not Applicable.
Irritancy of Product: Not applicable.
Reproductive Toxicity: Not Applicable.
Teratogenicity: Not Applicable.
Mutagenicity: Not Applicable.

Further hazard information, if applicable, may be found in Section 3. Toxicological information regarding

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individual ingredients, if applicable, may be found in Section 2.

Section 12 Ecological Information

Mobility: Not Determined.
Degradability: Not Determined.
Accumulation: Not Determined.
Ecotoxicity: Not Determined.
Other Adverse Effects: Not Determined.

Section 13 Disposal Considerations

Dispose of in accordance with all applicable regulations.

Section 14 Transport Information

D.O.T. (U.S.)

Proper Shipping Name: Consumer Commodity

Hazard Class or Division: ORM-D

Hazard Label: Not Regulated.

I.D. Number: Not Regulated.

TDG (Canada): Not Regulated.

IATA:(Domestic Air) Consumer Commodity, ID 8000, Class 9, Miscellaneous Label, Packing Instruction: 910.

IATA: (International Air) Proper Shipping Name: Aerosols, Flammable, N.O.S.; Class: 2.1; UN1950; Packing Instruction: Y203; Authorization: LTD. QTY.; FLAMMABLE GAS label required on box.

IMDG: (WATER) Proper Shipping Name: Aerosol Product, LTD QTY, IMDG Class 2, Page 2102, UN1950, Packing Group II, Marine Pollutant: Yes

Australian Code for the Transport of Dangerous Goods

Dangerous Goods Class and Subsidiary Risk: Not Determined.

Section 15 Regulatory Information

Footnotes for Section 2:

- 1 Subject to the reporting requirements of SARA Title III, Section 313.
- 2 Appears on the California Safe Drinking Water and Toxic Enforcement Act (Prop. 65) Substances List.
- 3 Appears on the Massachusetts Substances List.
- 4 Appears on the New Jersey Right-To-Know Hazardous Substances List.
- 5 Appears on the Pennsylvania Hazardous Substances List.
- 6 Appears on the Canadian WHMIS Ingredient Disclosure List.

U.S.A.

OSHA Hazard Status: This product is not considered to be hazardous as defined by the U.S. OSHA HCS (29 CFR 1910.1200).

EPA SARA sec. 311/312 Hazard Categories: Not Applicable.

Toxic Substances Control Act (TSCA): All ingredients contained in this product are listed on the U.S. EPA TSCA Chemical Substance Inventory.

HMIS Rating: Health 1, Flammability 4, Reactivity 1

NFPA Rating: Health 1, Flammability 4, Reactivity 1

U.S. Military Specifications: Meets Mil. Spec. A-907E.

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CANADA

WHMIS Classification: A - Compressed Gas
B5 - Flammable Aerosol

Domestic Substances List (DSL): All ingredients contained in this product are listed on the Canadian EPA (CEPA) Domestic Substances List (DSL).

E.U.

European Inventory of Existing Chemical Substances (EINECS): All ingredients contained in this product are listed on the European Inventory of Existing Chemical Substances (EINECS).

Categories of Danger (Labeling Information): Extremely Flammable, Toxic

Risk (R) Phrases: R12 Extremely Flammable

Safety (S) Phrases: S1/2: Keep locked up and out of reach of children
S9: Keep container in a well ventilated place
S16: Keep away from sources of ignition – no smoking
S23/24/25: Do not breathe spray and avoid contact with skin and eyes
S51: Use only in well ventilated areas

Further regulatory information regarding individual ingredients, if applicable, may be found in Section 2.

This product has been classified in accordance with the hazard criteria of the U.S. OSHA Hazard Communication Standard, the Canadian WHMIS Controlled Products Regulations, and British CHIP2 regulation 6. This MSDS contains the information required by the above regulations and conforms to ANSI Z400.1-1993.

Section 16 Other Information

MSDS Prepared By: Director of Chemical Safety

The information contained herein is based on data available to us and is accurate and reliable to the best of our knowledge and belief. However, LA-CO Industries, Inc. makes no representations as to its completeness or accuracy. Information is supplied on condition that persons receiving such information will make their own determination as to its suitability for their purposes prior to use. In no event will LA-CO Industries, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information contained herein.