

# Material Safety Data Sheet

## Section 1 - Product and Company Identification

**Product Name:** E-Z BREAK TWIST-STIK, COPPER GRADE  
**Revision #:** 1.7      **Date Prepared:** November 2, 1994      **Date Revised:** November 9, 2009

**Manufacturer:**

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

1201 Pratt Blvd.

Elk Grove Village, IL 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. **Synonyms:** Not Applicable. **Derivation:** Not Applicable.

**General Use:** High Temperature Anti-Seize Lubricant

**Supplier/importer:**

## Section 2 - Composition/Information on Ingredients

<u>Ingredient</u>	<u>CAS No.</u>	<u>%</u>
Aluminum <sup>3,4,5,6</sup> OSHA PEL: TWA = 15mg/m <sup>3</sup> (metal dust) ACGIH PEL: TWA = 10mg/m <sup>3</sup> (metal dust)	7429-90-5	2
Copper <sup>3,4,5,6</sup> OSHA & ACGIH PEL: TWA = 1mg/m <sup>3</sup> (metal dust) EPA: CERCLA RQ = 5000 lbs.	7440-50-8	15
Graphite <sup>3,5</sup> ACGIH PEL: TWA = 2mg/m <sup>3</sup> (respirable fraction of dust)	7782-42-5	20

(For Section 2 footnotes: See Section 15)

## Section 3 - Hazards Identification

**EMERGENCY OVERVIEW:** Direct contact may cause eye and skin irritation. May be harmful if swallowed.

**POTENTIAL HEALTH EFFECTS:**

**Primary Entry Routes:** Eyes, Skin, Ingestion

**Acute Effects**

**Eyes:** May cause irritation by direct contact.

**Skin:** May cause irritation by direct contact.

**Ingestion:** May lead to gastro-intestinal irritation.

**Inhalation:** Hot fumes may cause respiratory irritation.

**Chronic Effects**

**Eyes:** Not Determined

**Skin:** Long term contact may lead to dermatitis.

**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.

**HMS Rating:** Health 1, Flammability 1, Reactivity

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## Section 4 - First Aid

**Eye Contact:** Immediately flush eyes with water for at least 15 minutes while holding eyelids open. Remove any contact lenses. Have victim roll eyes for more thorough flushing. Consult physician if irritation persists.

**Skin Contact:** Remove contaminated clothing. Flush skin with water or wash with soap and water. Consult physician if irritation develops.

**Ingestion:** Do not induce vomiting. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. Consult physician.

**Inhalation:** Remove victim to fresh air. Restore breathing if required. Consult physician if necessary.

**Other Information:** Not Applicable.

## Section 5 - Fire Fighting Measures

**Flash Point (method):** 400°F/204°C (coc)

**Autoignition Temperature:** Not Determined.

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

**Flammability Classification:** Not Determined.

**Extinguishing Media:** Dry Chemical, Carbon Dioxide (CO<sub>2</sub>), Foam, Water fog.

**Hazardous Combustion Products:** Carbon Monoxide, Carbon Dioxide.

**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).

**NFPA Rating:** Health 1, Flammability 1, Reactivity 0

## Section 6 - Accidental Release Measures

Use recommended personal protective equipment (see Section 8).

**Small Spill:** Sweep or scrape up.

**Large Spill:** Material is in a semi-solid state and is not expected to be involved in a large spill except if exposed to enough heat to cause product to melt. Dike spill area and allow spilled material to cool and solidify. Scrape up solidified material.

## Section 7 - Handling and Storage

**Handling Precautions:** Use recommended personal protective equipment (see Section 8). Wash thoroughly after handling.

**Storage Requirements:** Store in a cool, dry area away from excessive heat.

## Section 8 - Exposure Controls/Personal Protection

**Eye/Face Protection:** Safety glasses. Where contact with the eyes is likely, use chemical goggles. Use a face shield as needed.

**Skin/Hand Protection:** Use impervious gloves. Use clean protective body-covering clothing as needed to minimize contact with clothing and skin.

**Respiratory Protection:** Use a NIOSH/MSHA approved air-purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use a positive pressure air supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respiratory protection program requirements (OSHA

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1910.134 and ANSI Z88.2) for all respirator use.

**Other Equipment:** Eyewash and safety shower.

**Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to control sources of dust or fumes.

**Administrative Controls:** Users of this product must be properly trained and qualified in its use.

**Other Information:** No food or beverage should be consumed in the work area. Wash thoroughly before eating, drinking, or smoking.

## Section 9 - Physical and Chemical Properties

**Appearance/Physical State:** Gray/copper colored cylindrical semi-solid lubricant stick.

**Odor:** Low odor.

**Odor Threshold (ppm):** Not Determined.

**Specific Gravity (H<sub>2</sub>O = 1):** >1

**Solubility in Water:** Insoluble.

**Coefficient of Water/Oil Solubility:** <<1

**pH:** Not Applicable.

**Melting Point:** 140 - 160°F/60 - 70°C

**Boiling Point:** Not Applicable.

**Vapor Pressure (mm Hg at 20°C):** Not Applicable.

**Vapor Density (Air = 1):** Not Applicable.

**Evaporation Rate (n-BuAc=1):** Not Applicable.

**V.O.C.:** 0%(w/w), 0%(v/v), 0 lbs./gal.

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable

**Chemicals to Avoid:** Oxidizers

**Hazardous Polymerization:** Will not occur.

**Hazardous Decomposition Products:** Not determined

**Conditions to Avoid:** Not Applicable.

## Section 11 - Toxicological Information

**Sensitization to Product:** Not Applicable.

**Teratogenicity:** Not Applicable.

**Irritancy of Product:** Eyes, Skin.

**Mutagenicity:** Not Applicable.

**Reproductive Toxicity:** Not Applicable.

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

## Section 12 - Ecological Information

Not Determined.

## Section 13 - Disposal Considerations

Dispose of in accordance with all applicable regulations.

The conditions of handling, storage, and use of this product are beyond our control and may be beyond our knowledge. For this and other reasons, LA-CO Industries, Inc. does not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

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## Section 14 - Transport Information

Not regulated by DOT, IATA, IMO, TDG

## 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 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.

**OSHA Hazard Status:** This product is considered to be hazardous as defined by the OSHA HCS (29 CFR 1910.1200).

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

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

**WHMIS Rating (Canada):** Not Applicable.

**Risk Phrases (Canada):** None required on containers of 100 ml or less per CPR, Section 19[1][a]-[d].

**Precautionary Statements (Canada):** None required on containers of 100 ml or less per CPR, Section 19[1][a]-[d].

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

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

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

## 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.**