

Material Safety Data Sheet

Section 1 Product and Company Identification

Product Name: **THERMOMELT STIK & PELLET 800°F / 427°C**

Revision #: 2.4

Date Prepared: June 15, 1993

Date Revised: May 27, 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: Temperature Indicator

Supplier/Importer:

Section 2 Composition/Information on Ingredients

Ingredient

Cobalt Compound (n.o.s., inorganic)^{1,4,5,6}
EPA: EPCRA section 313 de minimis concentration = 0.1%
ACGIH: TWA = 0.02 mg/m³ as Co
OSHA: PEL = 0.1 mg/m³ as Co metal, dust, and fume

CAS No.

%
9 (as Co)

Section 3 Hazards Identification

EMERGENCY OVERVIEW: May cause eye, skin or upper respiratory tract irritation. May cause allergic dermatitis. If irritation occurs rinse with water for at least 15 minutes.

WARNING: This product contains a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm.

POTENTIAL HEALTH EFFECTS

Primary Exposure Routes: Eyes, Skin, Ingestion, Inhalation

Acute Effects

Eyes: May cause irritation.

Skin: May cause local dermatitis which is relieved when removed. May cause allergic dermatitis.

Ingestion: Toxicity due to ingestion is low.

Inhalation: May cause irritation of upper respiratory tract. May cause allergic response in some individuals with asthma.

Chronic Effects: Not Determined.

Carcinogenicity:

Cobalt has not been classified as a known carcinogen by NTP or OSHA. The IARC states that Cobalt and compounds are possible carcinogens to humans - Group 2B (Monograph 52).

WARNING: This product contains a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm.

Target Organ Effects: Not Applicable.

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

Other Information: Not Applicable.

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Section 4 First Aid

Eye Contact: Flush with water for at least 15 minutes. If irritation occurs or persists, contact a medical doctor.

Skin Contact: Remove contaminated clothing and thoroughly wash with soap and water. If irritation occurs or persists, contact a medical doctor.

Ingestion: NEVER INDUCE VOMITING OR GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Drink one or two glasses of water and induce vomiting by touching the back of the throat with a finger or by giving syrup of ipecac. See a medical doctor.

Inhalation: Remove to fresh air. If breathing difficulty or discomfort occurs and persists, administer oxygen and contact a medical doctor.

Other Information: None Known.

Section 5 Fire Fighting Measures

Flash Point (method): Not Applicable.

Autoignition Temperature: Not Applicable.

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

Flammability Classification: Not applicable.

Extinguishing Media: Dry chemical, carbon dioxide (CO₂), water spray.

Hazardous Combustion Products: Metal oxides and other toxic fumes may be present.

Unusual Fire or Explosion Hazards: None Known.

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

Use recommended personal protective equipment (see Section 8). Sweep up and place in waste container.

Section 7 Handling and Storage

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

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

Section 8 Exposure Controls/Personal Protection

Eye/Face Protection: Safety glasses or goggles

Skin/Hand Protection: Rubber gloves.

Respiratory Protection: When adequate ventilation is not available, wear a NIOSH/MSHA respirator approved for protection against inorganic dusts.

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

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Section 9 Physical and Chemical Properties

Appearance/Physical State: Solid stick or pellet.

Odor: Low odor.

Odor Threshold (ppm): Not Determined.

Specific Gravity (H₂O = 1): >1

pH: About 7

Melting Point: 800°F/427°C

Boiling Point: Not Determined.

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.(U.S.), 0 kg/l

Solubility - Water: Soluble.

- **Fat:** Partially soluble.

Coefficient of Water/Oil Solubility: >1

Partition Coefficient (n-octanol/water): <1

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: Bromine trifluoride, potassium permanganate, sulfuric acid

Hazardous Decomposition Products (non-thermal): None Known.

Section 11 Toxicological Information

Sensitization to Product: May cause allergic dermatitis. May cause allergic response in some individuals with asthma.

Irritancy of Product: May be irritating to the eyes, skin, and upper respiratory tract.

Reproductive Toxicity: WARNING: This product contains a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm.

Teratogenicity: Not Applicable.

Mutagenicity: Not Applicable.

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

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Section 14 Transport Information

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

Proper Shipping Name: Not Regulated.

Hazard Class or Division: Not Regulated.

Hazard Label: Not Regulated.

I.D. Number: Not Regulated.

TDG (Canada): Not Regulated.

IATA: Not Regulated.

ICAO: Not Regulated.

IMO: Not Regulated.

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 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 considered to be hazardous as defined by the U.S. OSHA HCS (29 CFR 1910.1200).

EPA SARA sec. 311/312 Hazard Categories: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard.

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

California Prop. 65: WARNING: This product contains a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm.

HMIS Rating: Health 1, Flammability 0, Reactivity 0

NFPA Rating: Health 1, Flammability 0, Reactivity 0

CANADA

WHMIS Status: This product is considered to be hazardous as defined by Canadian WHMIS Controlled Products Regulations.

WHMIS Rating: D-1B, D-2B

WHMIS Risk Phrases: May cause eye, skin or upper respiratory tract irritation. May cause allergic dermatitis. If irritation occurs rinse with water for at least 15 minutes.

WHMIS Precautionary Statements: Avoid skin and eye contact. Avoid breathing fumes.

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): Harmful (Xn), Irritant (Xi)
Labeling not required per regulation 9 (7) of CHIP.

Risk (R) Phrases: Irritating to respiratory system (R37), May cause sensitization by skin contact (R43), Possible risk of irreversible effects (R40)

Safety (S) Phrases: Keep out of reach of children (S2), Keep away from food, drink and animal

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feedingstuffs (S13), Do not breath fumes (S23), Avoid contact with skin and eyes (S24/25), Wear suitable protective clothing (S36), Wear suitable gloves and eye/face protection (S37/39), If swallowed, seek medical advice and show this container, label or Safety Data Sheet (S46)

AUSTRALIA

Worksafe Australia Status: Not Determined.

HAZCHEM Code: Not Determined.

Poisons Schedule Number: Not Determined.

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, the British CHIP2 regulation 6, and the Australian NMRCWHS. 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.