Material Safety Data Sheet

Section 1 Product and Company Identification

Product Name: **HEAT SEAL STIK**
Revision #: 2.2 **Date Prepared:** June 11, 1993 **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: Sealing small leaks in metal, glass and ceramic tubing.

Supplier/Importer:

Section 2 Composition/Information on Ingredients

Ingredient	CAS No.	%

No Hazardous ingredients according to the U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200, Canadian WHMIS regulations, British CHIP2 regulation 6, and Australian Regulations for the Control of Workplace Hazardous Substances.

(For Section 2 footnotes: See Section 15)

Section 3 Hazards Identification

EMERGENCY OVERVIEW: Avoid breathing fumes.

POTENTIAL HEALTH EFFECTS
Primary Exposure Routes: Inhalation
Acute Effects
Eyes: Not Applicable.
Skin: Not Applicable.
Ingestion: Not Applicable.
Inhalation: Fumes evolved from overheating product could be irritating.
Chronic Effects
Eyes: Not Applicable.
Skin: Not Applicable.
Ingestion: Not Applicable.
Inhalation: Not Applicable.
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 with water.
Skin Contact: Wash with soap and water.
Ingestion: Not Applicable.
Inhalation: Remove from exposure. Contact physician if symptoms persist.
Other Information: Not Applicable.

Section 5 Fire Fighting Measures

Flash Point (method): Approximately 986^0F/530^0C
Autoignition Temperature: Not Determined.
LEL: Not Determined. **UEL:** Not Determined.
Flammability Classification: Not Determined.
Extinguishing Media: Water, Carbon Dioxide, Foam, Dry Chemical.
Hazardous Combustion Products: Carbon Monoxide, Carbon Dioxide, miscellaneous aromatic and aliphatic hydrocarbons, nitrogen oxides and other toxic fumes.
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

Use recommended personal protective equipment (see Section 8). Sweep or scrape up.

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. Do not expose to heat above 200°F (93°C) or product will cure.

Section 8 Exposure Controls/Personal Protection

Eye/Face Protection: Suitable for related activities where this product is used.
Skin/Hand Protection: Suitable for related activities where this product is used.
Respiratory Protection: Suitable for related activities where this product is used.
Other Equipment: Eye wash. Suitable for related activities where this product is used.
Engineering Controls: Normal room ventilation. Local exhaust in confined areas. Suitable for related activities where this product is used.
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: Green cylindrical solid.
Odor: Negligible
Odor Threshold (ppm): Not Determined.
Specific Gravity (H_2O = 1): >1
pH: Not Applicable.
Melting Point: Approximately 200°F/93°C.
Boiling Point: Not Applicable.
Solubility - Water: Insoluble
- Fat: 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)

Vapor Pressure (mm Hg at 20^{0}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
Unusual Fire or Explosion Hazards: (see Section 5)
Oxidizing Properties: Not Applicable.
Other Information: None.
Note: The physical data represented above are typical values and should not be construed as a specification.

Section 10 Stability and Reactivity

Chemical Stability: Stable
Hazardous Polymerization: Will Not Occur
Conditions to Avoid: None Known.
Chemicals to Avoid: Oxidizers, strong Lewis or mineral acids.
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 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: 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 (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 0, Flammability 1, Reactivity 0
NFPA Rating: Health 1, Flammability 1, Reactivity 0

CANADA

WHMIS Status: This product is not considered to be hazardous as defined by Canadian WHMIS Controlled Products Regulations.
WHMIS Rating: None.
WHMIS Risk Phrases: None.
WHMIS Precautionary Statements: None.
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): None.
Risk (R) Phrases: None.
Safety (S) Phrases: Keep out of reach of children (S2).

AUSTRALIA

Worksafe Australia Status: This product is not classified as hazardous according to criteria of Worksafe Australia.
HAZCHEM Code: None allocated.
Poisons Schedule Number: None allocated.

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.