


## SAFETY DATA SHEET

### Section 1: Product and Company Identification

**Product Name:** Markal® Thermomelt® Heat Stik™ 319°F/159°C  
**Product Code:** 86652  
**Product Use:** Surface temperature indicator  
**Supplier:** LA-CO Industries, Inc.  
 1201 Pratt Boulevard  
 Elk Grove Village, IL.  
 60007-5746  
 E-mail Contact: customer\_service@laco.com  
**Phone:** (847) 956-7600  
**Fax:** (847) 956-9885  
**24-hour Emergency:** CHEMTREC: (800) 424-9300

### Section 2: Hazards Identification

Protective Clothing	NFPA Rating (USA)	EC Classification	WHMIS (Canada)	Transportation
Not Required for Normal Use		Not Classified as Dangerous	Not Controlled	Not Regulated

**Emergency Overview:** Exposure to hazardous substances is not expected when handling this article for its intended use. Hot, molten product can cause thermal burns. May be harmful if swallowed.

**Appearance, Color and Odor:** Solid, white stick in a labeled holder, odorless.

While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

USA: This product is not a hazardous material as defined by 29 CFR1910.1200, OSHA Hazard Communication Standard. This product meets the definition of an "article".

Canada: This is not a controlled product under WHMIS. This product meets the definition of a "manufactured article" and is not subject to the regulations of the Hazardous Products Act.

European Communities (EC): This product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

**Potential Health Effects:** **ACUTE (short term):**

**Relevant Route(s) of Exposure:** Skin contact.

**Inhalation:** Exposure to hazardous substances by inhalation is not expected with normal use of the product. Fumes generated from overheating the material may cause irritation to the respiratory tract.

**Ingestion:** Not an expected route of occupational exposure. Acute oral toxicity of the component substances is low. May cause a laxative effect if swallowed.

**Skin:** Normal use of the stick will not result in harmful effects. May cause irritation when in prolonged contact with the skin. Molten product can cause thermal burns.

**Eye:** Direct contact with the eyes may cause irritation. Fumes generated from overheating the material may cause irritation to the eyes.

**CHRONIC (long term):** see Section 11 for additional toxicological data

Long-term health effects are not expected with normal use of the product.

**Medical Conditions Aggravated by Exposure:** Preexisting skin disorders may be aggravated by repeated exposures to the components in the stick.

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### Section 2: Hazards Identification, continued

**Interactions With Other Chemicals:** Not available

**Potential Environmental Effects:** Not available

### Section 3: Composition / Information on Ingredients

Non-hazardous mixture of mannitol, naturally occurring minerals, a saturated, aliphatic carboxylic acid and fatty alcohol compounds.

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Wt.%</u>	<u>EINECS / ELINCS</u>	<u>Symbol</u>	<u>Risk Phrases</u>
Adipic acid	124-04-9	5 - 10	204-673-3	Xi	R36

### Section 4: First Aid Measures

**Inhalation:** If symptoms are experienced remove source of contamination or move victim to fresh air and obtain medical advice.

**Eye Contact:** No effects expected. If irritation occurs, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.

**Skin Contact:** If irritation does occur, flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.  
 For thermal burns: cool affected area with cold water; do not remove solidified material from the skin; seek medical attention.

**Ingestion:** If swallowed, call a Poison Control Centre or obtain medical advice immediately.

### Section 5: Fire Fighting Measures

**Flammable Properties:** Product will burn if involved in a fire.

**Suitable extinguishing Media:** For small fires, use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. For large fires, use carbon dioxide, dry chemical powder, alcohol-resistant foam or polymer foam. Use water spray to cool fire-exposed containers.

**Unsuitable extinguishing Media:** Do not use water jet on hot, molten product.

**Explosion Data:**

**Sensitivity to Mechanical Impact:** Not applicable

**Sensitivity to Static Discharge:** Not applicable

**Specific Hazards arising from the Chemical:** If involved in a fire, combustion may produce toxic and irritating fumes and gases.

**Protective Equipment and precautions for firefighters:** Self-contained breathing apparatus and protective clothing should be worn. Remove all unprotected personnel.

**NFPA**

<b>Health:</b>	1
<b>Flammability:</b>	1
<b>Instability:</b>	0

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### Section 6: Accidental Release Measures

<b>Personal Precautions:</b>	Wear thermal protective gloves if needed to prevent skin contact with hot, molten material.
<b>Environmental Precautions:</b>	Prevent the product from entering sewers or waterways.
<b>Methods for Containment:</b>	Not applicable
<b>Methods for Clean-up:</b>	Pick up spilled product and collect for re-use or proper disposal. Dispose of any contaminated, unusable product as described in Section 13 of this SDS.

### Section 7: Handling and Storage

<b>Handling:</b>	Keep out of reach of children. Avoid breathing any fumes from thermal decomposition. Do not ingest. Do not use on foods. Do not touch heated, molten product.
<b>Storage:</b>	Store out of direct sunlight and away from heat, flames and ignition sources.

### Section 8: Exposure Controls/Personal Protection

#### Exposure Guidelines

Measurable airborne concentrations of the component substances are not expected when the product is used for its intended purpose.

#### Exposure Controls

<b>Engineering Controls:</b>	Not required for normal use.
<b>Personal Protection:</b>	
<b>Eye/Face Protection:</b>	No special requirements. Wear protective equipment appropriate for the workplace conditions where this product is used.
<b>Skin Protection:</b>	Wear thermal protective gloves when needed to prevent burns.
<b>Respiratory Protection:</b>	No special requirements. Wear protective equipment appropriate for the workplace conditions where this product is used.
<b>General Hygiene Measures:</b>	Avoid breathing fumes. Do not ingest. Avoid contact with the skin. Keep out of reach of children. Wash hands at the end of every work shift and before eating, drinking, smoking or using the toilet.

### Section 9: Physical and Chemical Properties

<b>Physical State:</b>	Solid.	<b>Flash Point &amp; method:</b>	Not available
<b>Appearance, Color and Odor:</b>	White stick in a labeled holder, odorless.	<b>Autoignition Temperature:</b>	Not available
<b>Odor Threshold:</b>	Not available	<b>Flammability Limits in Air:</b>	Not available
<b>pH:</b>	Not applicable	<b>Vapor Pressure:</b>	Not available
<b>Relative density:</b>	>1 (estimated)	<b>Vapor Density:</b>	Not applicable
<b>Partition coefficient:</b>	Not available	<b>Evaporation Rate:</b>	Not applicable
<b>Solubility:</b>	Partially soluble in water	<b>Boiling Point/Range:</b>	Not available
<b>Viscosity:</b>	Not applicable	<b>Melting Point:</b>	Approximately 319°F/159°C
<b>Decomposition Temperature:</b>	Not available	<b>VOC Content:</b>	0% (w/w)

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### Section 10: Stability and Reactivity

<b>Chemical Stability:</b>	Stable at normal room temperature.
<b>Conditions to Avoid:</b>	Do not use in conditions of extreme heat or near open flames. Avoid contact with other substances; contamination of product may affect its melting point.
<b>Incompatible Materials:</b>	Incompatible with strong acids, strong bases and oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Heating to decomposition (>330°C) may release highly toxic fumes including low molecular weight hydrocarbons and volatile acidic vapors.
<b>Possibility of Hazardous Reactions:</b>	Not applicable

### Section 11: Toxicological Information

**Acute Toxicity Data** Acute toxicity data is not available for the marking preparations inside the sticks. Exposure to toxic and harmful substances by the user is not expected when the stick is used for its intended purpose.

**Other Toxicity Data**

<b>Carcinogenicity:</b>	Normal use of this product will not result in exposure to any component that is considered a human carcinogen by IARC (International Agency for Research on Cancer), ACGIH (American Conference of Governmental Industrial Hygienists, OSHA or NTP (National Toxicology Program).
<b>Irritation:</b>	Direct contact with the eyes may cause irritation.
<b>Corrosivity:</b>	Not applicable
<b>Sensitization:</b>	Not applicable
<b>Neurological Effects:</b>	Not applicable
<b>Genetic Effects:</b>	Not applicable
<b>Reproductive Effects:</b>	Not applicable
<b>Developmental Effects:</b>	Not applicable
<b>Target Organ Effects:</b>	Not applicable

### Section 12: Ecological Information

<b>Ecotoxicity:</b>	Not available
<b>Persistence/Degradability:</b>	Not available
<b>Bioaccumulation/Accumulation:</b>	Not available
<b>Mobility:</b>	Not available

### Section 13: Disposal Considerations

**Waste Disposal Method:** Do NOT dump into any sewers, on the ground or into any body of water. Store material for disposal as indicated in Section 7 Handling and Storage.  
 The conditions of use, storage and disposal 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.

Waste must be disposed of in accordance with relevant EC Directives and national, regional and local environmental control regulations.

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### Section 14: Transport Information:

<b>U.S. Hazardous Materials Regulation (DOT 49CFR):</b>	Not regulated
<b>Canadian Transportation of Dangerous Goods (TDG):</b>	Not regulated
<b>ADR/RID:</b>	Not regulated
<b>IMDG:</b>	Not regulated
<b>Marine Pollutants:</b>	Not applicable
<b>ICAO/IATA:</b>	Not regulated

### Section 15: Regulatory Information

<b>USA</b>	
<b>TSCA Status:</b>	All component substances are listed on the TSCA inventory.
<b>SARA Title III</b>	
Sec. 302/304:	None
Sec. 311/312:	None
Sec. 313:	Not applicable
<b>CERCLA RQ:</b>	Not applicable (5000 lb RQ for adipic acid)
<b>Canada</b>	
	This product has been classified in accordance with the hazard criteria of the <i>Controlled Products Regulations</i> and the MSDS contains all the information required by the <i>Controlled Products Regulations</i> .
<b>WHMIS Classification: (for workplace exposures)</b>	Not controlled. Product meets the definition of a "manufactured article" and is not subject to the regulations of the Hazardous Products Act.
<b>New Substance Notification Regulations:</b>	All component substances are listed on Canada's Domestic Substances List (DSL).
<b>NPRI Substances:</b>	Adipic acid is a NPRI reportable substance (5 - 10%).
<b>EC Classification for the Substance/Preparation</b>	
<b>European Inventories:</b>	All component substances are listed in EINECS.
<b>Symbol:</b>	This product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

### Section 16: Other Information

<b>Preparation Information:</b>	
<b>Revision Date:</b>	February 25, 2011
<b>Manufacturer Disclaimer:</b>	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.
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