SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product form : Mixture
Trade name : Thermomelt® HEAT-STIK Marker 400 °F (204 °C), 413 °F (212 °C)

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture : Temperature indicator

1.3. Details of the supplier of the safety data sheet
LA-CO Industries, Inc.
1201 Pratt Boulevard
Elk Grove Village, IL  60007-5746
Phone: (847) 956-7600
Fax: (847) 956-9885
E-mail: customer_service@laco.com

1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification in accordance with the Globally Harmonized Standard
Eye Dam.  1 H318
STOT SE 3 H335
Full text of hazard classes and H-statements : see section 16

2.2. Label elements

GHS-US labelling
Hazard pictograms (GHS-US) :

Signal word (GHS-US) : Danger
Hazard statements (GHS-US) : H318 - Causes serious eye damage
H335 - May cause respiratory irritation
Precautionary statements (GHS-US) : P261 - Avoid breathing dust, fume
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear eye protection, protective gloves
P304 + P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305 + P351 + P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a doctor
P312 - Call a poison center/doctor/… if you feel unwell
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable
Thermomelt® HEAT-STIK Marker 400 °F (204 °C), 413 °F (212 °C)

Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
according to Canadian Hazardous Products Regulations (HPR)

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures
First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact: Wash with plenty of soap and water.
First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after ingestion: Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries after inhalation: May cause respiratory irritation.
Symptoms/injuries after eye contact: Causes serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed
All treatments should be based on observed signs and symptoms of distress in the patient.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture
Fire hazard: No specific fire or explosion hazard.
Reactivity: No dangerous reactions known.

5.3. Advice for firefighters
Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Wear fire/flame resistant/retardant clothing. Wear a self contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
General measures: Avoid contact with skin and eyes. Avoid creating or spreading dust.

6.1.1. For non-emergency personnel
Protective equipment: Chemical goggles or safety glasses. protective gloves. In case of inadequate ventilation wear respiratory protection.
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment: Chemical goggles or safety glasses. Use neoprene or rubber gloves. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment.
Emergency procedures: Ventilate area.

6.2. Environmental precautions
Do not discharge into drains or the environment.

6.3. Methods and material for containment and cleaning up
For containment: Contain and collect as any solid. Avoid generating dust.
Methods for cleaning up: Take up in non-combustible absorbent material and shove into container for disposal. Minimize generation of dust.
6.4. Reference to other sections
Section 13: disposal information. Section 7: safe handling, Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Avoid breathing dust, fume. Use only outdoors or in a well-ventilated area.
Hygiene measures: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

7.3. Specific end use(s)
Temperature indicator.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Thermomelt® HEAT-STIK Marker 400 °F (204 °C), 413 °F (212 °C)</th>
<th>ACGIH</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA</td>
<td>Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>adipic acid (124-04-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
</tr>
<tr>
<td>ACGIH</td>
</tr>
<tr>
<td>OSHA</td>
</tr>
<tr>
<td>Canada (Quebec)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4-hydroxybenzoic acid (99-96-7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
</tr>
<tr>
<td>OSHA</td>
</tr>
</tbody>
</table>

8.2. Exposure controls
Appropriate engineering controls: Avoid dispersal of dust in the air (ie, clearing dust surfaces with compressed air). Either local exhaust or general room ventilation is usually required. Eyewash stations.
Hand protection: It is a good industrial hygiene practice to minimize skin contact. Wear suitable gloves. rubber.
Eye protection: Chemical goggles or safety glasses.
Respiratory protection: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Use air-purifying respirator equipped with particulate filtering cartridges.
Thermal hazard protection: Flame retardant clothing should be used when handling in molten state.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Physical state: Solid
Appearance: A solid crayon-like marker.
Colour: Variable.
Odour: odourless.
Odour threshold: No data available
pH: No data available
Relative evaporation rate (butyl acetate=1): No data available
Melting point: 204 °C / 400 °F
Freezing point: No data available
Boiling point: No data available
Flash point: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Flammability (solid, gas): No data available
Thermomelt® HEAT-STIK Marker 400 °F (204 °C), 413 °F (212 °C)

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Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: > 1 (estimated)
Solubility: In water, material is partially soluble.
Log Pow: No data available
Log Kow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive properties: No data available
Oxidising properties: No data available
Explosive limits: No data available

9.2. Other information
VOC content: 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity
No dangerous reactions known.

10.2. Chemical stability
Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
Avoid creating or spreading dust. Contact with incompatible materials.

10.5. Incompatible materials

10.6. Hazardous decomposition products
Burning produces irritating, toxic and noxious fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity
- Not classified

<table>
<thead>
<tr>
<th>adipic acid (124-04-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
</tr>
<tr>
<td>ATE CLP (oral)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4-hydroxybenzoic acid (99-96-7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
</tr>
<tr>
<td>ATE CLP (oral)</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
- Not classified

Serious eye damage/irritation
- Causes serious eye damage.

Respiratory or skin sensitisation
- Not classified

Germ cell mutagenicity
- Not classified

Carcinogenicity
- Not classified

4-hydroxybenzoic acid (99-96-7)

NOAEL (chronic, oral, animal/male, 2 years) | 1050 mg/kg bodyweight |

NOAEL (chronic, oral, animal/female, 2 years) | 1050 mg/kg bodyweight |

Reproductive toxicity
- Not classified

Specific target organ toxicity (single exposure)
- May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)
- Not classified
Thermomelt® HEAT-STIK Marker 400 °F (204 °C), 413 °F (212 °C)
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
according to Canadian Hazardous Products Regulations (HPR)

<table>
<thead>
<tr>
<th>Substance</th>
<th>NOAEL (oral, rat, 90 days)</th>
<th>Aspiration hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>adipic acid (124-04-9)</td>
<td>750 mg/kg bodyweight/day</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

### Potential adverse human health effects and symptoms

- Symptoms/injuries after inhalation: May cause respiratory irritation.
- Symptoms/injuries after eye contact: Causes serious eye damage.
- Likely routes of exposure: Skin and eye contact; Inhalation

### Section 12: Ecological Information

#### 12.1 Toxicity

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50 fish</th>
<th>EC50 Daphnia</th>
</tr>
</thead>
<tbody>
<tr>
<td>adipic acid (124-04-9)</td>
<td>&gt;= 1000 mg/l 96 h</td>
<td>46 mg/l 48 h</td>
</tr>
<tr>
<td>4-hydroxybenzoic acid (99-96-7)</td>
<td>92.8 mg/l 96 h</td>
<td>90 mg/l 24 h</td>
</tr>
</tbody>
</table>

#### 12.2 Persistence and degradability

<table>
<thead>
<tr>
<th>Substance</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>adipic acid (124-04-9)</td>
<td>Readily biodegradable.</td>
</tr>
<tr>
<td>Biodegradation</td>
<td>90 % 5 d</td>
</tr>
<tr>
<td>4-hydroxybenzoic acid (99-96-7)</td>
<td>Biodegradation 87.7 % 28 d</td>
</tr>
</tbody>
</table>

#### 12.3 Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>BCF fish</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>adipic acid (124-04-9)</td>
<td>3.162</td>
<td>0.093</td>
</tr>
<tr>
<td>4-hydroxybenzoic acid (99-96-7)</td>
<td></td>
<td>0.878</td>
</tr>
</tbody>
</table>

#### 12.4 Mobility in soil

No additional information available

#### 12.5 Other adverse effects

No additional information available

### Section 13: Disposal Considerations

#### 13.1 Waste Treatment Methods

- Sewage disposal recommendations: Do not dispose of waste into sewer.
- Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.
- Ecology - waste materials: Avoid release to the environment.

### Section 14: Transport Information

- In accordance with DOT and TDG
- Not considered a dangerous good for transport regulations
- Proper Shipping Name (ADR): Not applicable
- Transport hazard class(es) (ADR): 
- Transport by sea
- Transport hazard class(es) (IMDG): 
- Air transport
- Transport hazard class(es) (IATA): 

### Section 15: Regulatory Information

#### 15.1 US Federal Regulations

- adipic acid (124-04-9)
- Listed on the United States TSCA (Toxic Substances Control Act) inventory
- RQ (Reportable quantity, section 304 of EPA's List of Lists): 5000 lb
### 15.2. International regulations

<table>
<thead>
<tr>
<th>Country</th>
<th>Regulations</th>
<th>Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CANADA</strong></td>
<td><strong>adipic acid (124-04-9)</strong></td>
<td>Listed on the Canadian DSL (Domestic Substances List) inventory.</td>
</tr>
<tr>
<td></td>
<td><strong>4-hydroxybenzoic acid (99-96-7)</strong></td>
<td>Listed on the Canadian DSL (Domestic Substances List) inventory.</td>
</tr>
<tr>
<td><strong>EU-Regulations</strong></td>
<td><strong>adipic acid (124-04-9)</strong></td>
<td>Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)</td>
</tr>
<tr>
<td></td>
<td><strong>4-hydroxybenzoic acid (99-96-7)</strong></td>
<td>Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)</td>
</tr>
<tr>
<td><strong>National regulations</strong></td>
<td><strong>Thermomelt® HEAT-STIK Marker 400 °F (204 °C), 413 °F (212 °C)</strong></td>
<td>All components are listed on the EEC inventory European Inventory of Existing Commercial Chemical Substances (EINECS). All ingredients are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL). All ingredients are listed in the Toxic Substances Control Act (TSCA).</td>
</tr>
</tbody>
</table>

### 15.3. US State regulations

<table>
<thead>
<tr>
<th>State</th>
<th>Regulations</th>
<th>Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - Massachusetts</td>
<td><strong>Right To Know List</strong></td>
<td></td>
</tr>
<tr>
<td>U.S. - New Jersey</td>
<td><strong>Right to Know Hazardous Substance List</strong></td>
<td></td>
</tr>
<tr>
<td>U.S. - Pennsylvania</td>
<td><strong>RTK (Right to Know) List</strong></td>
<td></td>
</tr>
</tbody>
</table>

### SECTION 16: Other information

<table>
<thead>
<tr>
<th>Data sources</th>
<th>Indication of changes</th>
<th>Abbreviations and acronyms</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWA: Time Weight Average.</td>
<td></td>
<td>LD50: Lethal Dose for 50% of the test population.</td>
</tr>
<tr>
<td>OSBA: Occupational Safety &amp; Health Administration. PBT: Persistent, Bioaccumulative, Toxic.</td>
<td></td>
<td>STEL: Short Term Exposure Limits.</td>
</tr>
<tr>
<td>TSCA: Toxic Substances Control Act.</td>
<td></td>
<td>Abbreviation and acronyms include:</td>
</tr>
<tr>
<td>Abbreviations and acronyms</td>
<td></td>
<td>ATE: Acute Toxicity Estimate.</td>
</tr>
<tr>
<td>CAS (Chemical Abstracts Service) number.</td>
<td></td>
<td>CLP: Classification, Labelling, Packaging.</td>
</tr>
<tr>
<td>EC50: Environmental Concentration associated with a response by 50% of the test population.</td>
<td></td>
<td>GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).</td>
</tr>
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Thermomelt® HEAT-STIK Marker 400 °F (204 °C), 413 °F (212 °C)

Safety Data Sheet

Other information: None.

<table>
<thead>
<tr>
<th>NFPA health hazard</th>
<th>2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFPA fire hazard</td>
<td>1 - Must be preheated before ignition can occur.</td>
</tr>
<tr>
<td>NFPA reactivity</td>
<td>0 - Normally stable, even under fire exposure conditions, and not reactive with water.</td>
</tr>
</tbody>
</table>

Full text of H-statements:

| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2A | Serious eye damage/eye irritation, Category 2A |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |

SDS Prepared by: The Redstone Group, LLC  
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Dublin, OH USA 43016  
T 614-923-7472  
www.redstonegrp.com

LACO NA GHS SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.