**Thermomelt® HEAT-STIK Marker 282 °F (139 °C). 275 °F (135 °C)**

**LA-CO Industries, Inc.**

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

1. **Product identifier**
   - **Product form**: Mixture
   - **Trade name**: Thermomelt® HEAT-STIK Marker 282 °F (139 °C). 275 °F (135 °C)

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

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

4. **Emergency telephone number**
   - **Emergency number**: 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887

**SECTION 2: Hazards identification**

1. **Classification of the substance or mixture**
   - **Classification in accordance with the Globally Harmonized Standard**
     - Acute Tox. 4 (Oral) H302
   - **Full text of hazard classes and H-statements**: see section 16

2. **Label elements**
   - **GHS-US labelling**
     - **Hazard pictograms (GHS-US)**
       - ![GHS07](image)
   - **Signal word (GHS-US)**: Warning
   - **Hazard statements (GHS-US)**: H302 - Harmful if swallowed
   - **Precautionary statements (GHS-US)**:
     - P264 - Wash hands thoroughly after handling
     - P270 - Do not eat, drink or smoke when using this product
     - P301+P312 - If swallowed: Call a POISON CENTER, a doctor if you feel unwell
     - P330 - Rinse mouth
     - P501 - Dispose of contents/container to an approved waste disposal plant

3. **Other hazards**
   - No additional information available

**SECTION 3: Composition/Information on ingredients**

1. **Substance**
   - Not applicable

2. **Mixture**

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>% (w/w)</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>salicylamide</td>
<td>(CAS No) 65-45-2</td>
<td>85.64 : 275 °F</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td>94.15 : 282 °F</td>
<td></td>
</tr>
</tbody>
</table>

**Full text of H-statements**: see section 16
Thermomelt® HEAT-STIK Marker 282 °F (139 °C). 275 °F (135 °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)

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: If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact: Wash with plenty of soap and water.
First-aid measures after eye contact: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion: Rinse mouth. 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 eye contact: Direct contact with the eyes is likely to be irritating.
Symptoms/injuries after ingestion: Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed.

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: Wear suitable gloves.
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment: Wear suitable gloves.
Emergency procedures: Ventilate area.

6.2. Environmental precautions
Avoid release to the environment. 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.
Thermomelt® HEAT-STIK Marker 282 °F (139 °C). 275 °F (135 °C)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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26/10/2015 EN (English) SDS Ref.: LACO1410002

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Hygiene measures: Do not eat, drink or smoke when using this product. 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.


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 282 °F (139 °C). 275 °F (135 °C)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>OSHA</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>salicylamide (65-45-2)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>OSHA</td>
<td>Not applicable</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.

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: It is a good industrial hygiene practice to minimize skin contact. In case of repeated or prolonged contact wear gloves. Dust impervious gloves.

Eye protection: In case of dust production: protective goggles.

Respiratory protection: In case of inadequate ventilation wear respiratory protection. Use air-purifying respirator equipped with particulate filtering cartridges.

Thermal hazard protection: Flame retardant clothing should be used when handling in molten state.

Other information: Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>A solid crayon-like marker.</td>
</tr>
<tr>
<td>Colour</td>
<td>Variable.</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>139 °C</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>&gt; 1</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
</tbody>
</table>
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. Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity          : Oral: Harmful if swallowed.

<table>
<thead>
<tr>
<th></th>
<th>Thermomelt® HEAT-STIK Marker 282 °F (139 °C). 275 °F (135 °C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE CLP (oral)</td>
<td>1487.005 mg/kg bodyweight</td>
</tr>
<tr>
<td>salicylamide (65-45-2)</td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>1400 mg/kg</td>
</tr>
<tr>
<td>ATE CLP (oral)</td>
<td>1400.000 mg/kg bodyweight</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity        : Not classified
Reproductive toxicity  : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure) : Not classified
Aspiration hazard      : Not classified

Potential adverse human health effects and symptoms
Symptoms/injuries after eye contact : Direct contact with the eyes is likely to be irritating.
Symptoms/injuries after ingestion  : Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed.
Likely routes of exposure         : Skin and eye contact; Inhalation

SECTION 12: Ecological information

12.1. Toxicity

<table>
<thead>
<tr>
<th></th>
<th>salicylamide (65-45-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>101 mg/l 96 h</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>75 mg/l 24 h</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

<table>
<thead>
<tr>
<th></th>
<th>salicylamide (65-45-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biodegradation</td>
<td>99 % 28 d</td>
</tr>
</tbody>
</table>
12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Thermomelt® HEAT-STIK Marker 282 °F (139 °C). 275 °F (135 °C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
</tr>
<tr>
<td>salicylamide (65-45-2)</td>
</tr>
<tr>
<td>Log Pow</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

<table>
<thead>
<tr>
<th>Sewage disposal recommendations</th>
<th>Do not dispose of waste into sewer.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste disposal recommendations</td>
<td>Dispose in a safe manner in accordance with local/national regulations.</td>
</tr>
<tr>
<td>Ecology - waste materials</td>
<td>Avoid release to the environment.</td>
</tr>
</tbody>
</table>

SECTION 14: Transport information

In accordance with DOT and TDG
Not considered a dangerous good for transport regulations

<table>
<thead>
<tr>
<th>Proper Shipping Name (ADR)</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport hazard class(es) (ADR)</td>
<td>:</td>
</tr>
<tr>
<td>Transport by sea</td>
<td></td>
</tr>
<tr>
<td>Transport hazard class(es) (IMDG)</td>
<td>:</td>
</tr>
<tr>
<td>Air transport</td>
<td></td>
</tr>
<tr>
<td>Transport hazard class(es) (IATA)</td>
<td>:</td>
</tr>
</tbody>
</table>

SECTION 15: Regulatory information

15.1. US Federal regulations

| salicylamide (65-45-2) | Listed on the United States TSCA (Toxic Substances Control Act) inventory |

15.2. International regulations

CANADA

| salicylamide (65-45-2) | Listed on the Canadian DSL (Domestic Substances List) inventory. |

EU-Regulations

| salicylamide (65-45-2) | Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |

National regulations

<table>
<thead>
<tr>
<th>Thermomelt® HEAT-STIK Marker 282 °F (139 °C). 275 °F (135 °C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All components are listed on the EEC inventory European Inventory of Existing Commercial Chemical Substances (EINECS).</td>
</tr>
<tr>
<td>All ingredients are listed in the Toxic Substances Control Act (TSCA).</td>
</tr>
<tr>
<td>All ingredients are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).</td>
</tr>
</tbody>
</table>

15.3. US State regulations
No additional information available

SECTION 16: Other information

Indication of changes : Added. Product.
**Thermomelt® HEAT-STIK Marker 282 °F (139 °C). 275 °F (135 °C)**

Safety Data Sheet

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| Data sources                                      | ACGIH 2000.  
Data sources | ACGIH (American Conference of Government Industrial Hygienists).  
ATE: Acute Toxicity Estimate.  
CAS (Chemical Abstracts Service) number.  
CLP: Classification, Labelling, Packaging.  
EC50: Environmental Concentration associated with a response by 50% of the test population.  
GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).  
LD50: Lethal Dose for 50% of the test population.  
OSHA: Occupational Safety & Health Administration.  
PBT: Persistent, Bioaccumulative, Toxic.  
STEL: Short Term Exposure Limits.  
TSCA: Toxic Substances Control Act.  
TWA: Time Weight Average.  
Abbreviations and acronyms | None.  
Other information | None.  
NFPA health hazard | 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.  
NFPA fire hazard | 1 - Must be preheated before ignition can occur.  
NFPA reactivity | 0 - Normally stable, even under fire exposure conditions, and not reactive with water.  
Full text of H-statements:  
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4  
H302 | Harmful if swallowed  
SDS Prepared by: The Redstone Group, LLC  
6077 Frantz Rd.  
Suite 206  
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  

26/10/2015 EN (English) SDS Ref.: LACO1410002 6/6