Thermomelt® HEAT-STIK Marker 250 °F (120, 121 °C)

LA-CO Industries, Inc.

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 250 °F (120, 121 °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
Acute Tox. 4 (Oral) H302
Acute Tox. 4 (Inhalation:dust,mist) H332
Aquatic Chronic 2 H411
Full text of H-phrases: see section 16

2.2. Label elements
GHS-US labelling
Hazard pictograms (GHS-US):

Signal word (GHS-US): Warning
Hazard statements (GHS-US): H302+H332 - Harmful if swallowed or if inhaled
H411 - Toxic to aquatic life with long lasting effects
Precautionary statements (GHS-US):
P261 - Avoid breathing dust, fume
P264 - Wash hands thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment
P301+P312 - If swallowed: Call a doctor, a POISON CENTER if you feel unwell
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P312 - Call a doctor, a POISON CENTER if you feel unwell
P330 - Rinse mouth
P391 - Collect spillage
P501 - Dispose of contents/container to an authorised waste collection point

2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable
Thermomelt® HEAT-STIK Marker 250 °F (120, 121 °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)

3.2 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>3-aminophenol</td>
<td>(CAS No) 591-27-5</td>
<td>88.50</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4 (Inhalation), H332</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 2, H411</td>
</tr>
</tbody>
</table>

Full text of H-phrases: 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

If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

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

Do NOT induce vomiting. 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 inhalation

Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.

Symptoms/injuries after skin contact

Repeated or prolonged contact may cause skin irritation.

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

Suitable 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

In case of inadequate ventilation wear respiratory protection.

Emergency procedures

Evacuate unnecessary personnel.

6.1.2 For emergency responders

Protective equipment

Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment.

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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling : Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume.
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 250 °F (120, 121 °C)</th>
<th>ACGIH</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA</td>
<td></td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3-aminophenol (591-27-5)</th>
<th>ACGIH</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA</td>
<td></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). Provide local exhaust ventilation of closed transfer systems to minimize exposures.
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. rubber.
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
Physical state : Solid
Appearance : A solid crayon-like marker.
Colour : Blue.
Odour : Odourless.
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Melting point : 121 °C / 250 °F
Freezing point : No data available
Boiling point : No data available
Flash point : 177 °C
Auto-ignition temperature : No data available
Thermomelt® HEAT-STIK Marker 250 °F (120, 121 °C)

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Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : > 1
Solubility : insoluble in water.
Log Pow : < 1
Log Kow : No data available
Viscosity, dynamic : No data available
Explosive 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 : Oral: Harmful if swallowed. Inhalation:dust,mist: Harmful if inhaled.

Thermomelt® HEAT-STIK Marker 250 °F (120, 121 °C)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>ATE CLP (oral)</td>
<td>783.090 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE CLP (dust,mist)</td>
<td>1.695 mg/l/4h</td>
</tr>
</tbody>
</table>

3-aminophenol (591-27-5)

<p>| | |</p>
<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>693 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>1162 mg/m³</td>
</tr>
<tr>
<td>ATE CLP (oral)</td>
<td>693.000 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE CLP (dust,mist)</td>
<td>1.500 mg/l/4h</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 inhalation: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.
Symptoms/injuries after skin contact: Repeated or prolonged contact may cause skin irritation.
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
Ecology - water: Toxic to aquatic life with long lasting effects.

3-aminophenol (591-27-5)
LC50 fish 1: 313.687 mg/l 96 h
EC50 Daphnia 1: 1.1 mg/l 48 h

12.2 Persistence and degradability
Thermomelt® HEAT-STIK Marker 250 °F (120, 121 °C)
Persistence and degradability: May cause long-term adverse effects in the environment.

3-aminophenol (591-27-5)
Persistence and degradability: Not expected to persist.
Biodegradation: 50 % 15 d

12.3 Bioaccumulative potential
Thermomelt® HEAT-STIK Marker 250 °F (120, 121 °C)
Log Pow: < 1

3-aminophenol (591-27-5)
Log Pow: 0.611
Bioaccumulative potential: Not expected to bioaccumulate.

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
Transport document description: UN3077 Environmentally hazardous substances, solid, n.o.s. (3-aminophenol), 9, III
UN-No. (DOT): UN3077
Proper Shipping Name (DOT): Environmentally hazardous substances, solid, n.o.s. (3-aminophenol)
Department of Transportation (DOT) Hazard Classes: 9 - Class 9 (Miscellaneous dangerous materials)
Packing group (DOT): III - Minor Danger

ADR
Transport document description: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (3-aminophenol), 9, III, (E)
Proper Shipping Name (ADR): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (3-aminophenol)
Packing group (ADR): III
Class (ADR): 9 - Miscellaneous dangerous substances and articles

Transport by sea
UN-No. (IMDG): UN 3077
Proper Shipping Name (IMDG): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (3-aminophenol)
Class (IMDG): 9 - Miscellaneous dangerous substances and articles
**Thermomelt® HEAT-STIK Marker 250 °F (120, 121 °C)**

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according to Canadian Hazardous Products Regulations (HPR)

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**Packing group (IMDG)**: III

**Air transport**

UN-No. (IATA): UN 3077

Proper Shipping Name (IATA): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (3-aminophenol)

Class (IATA): 9 - Miscellaneous Dangerous Goods

Packing group (IATA): III

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**SECTION 15: Regulatory information**

**15.1. US Federal regulations**

**3-aminophenol (591-27-5)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

**15.2. International regulations**

**CANADA**

**3-aminophenol (591-27-5)**

Listed on the Canadian DSL (Domestic Substances List) inventory.

**EU-Regulations**

**3-aminophenol (591-27-5)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances).

**National regulations**

**Thermomelt® HEAT-STIK Marker 250 °F (120, 121 °C)**

All components are listed on the EEC inventory European Inventory of Existing Commercial Chemical Substances (EINECS).

All ingredients are listed in the Toxic Substances Control Act (TSCA).

All ingredients are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).

**15.3. US State regulations**

No additional information available.

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**SECTION 16: Other information**

**Indication of changes**:

Original Document.

**Data sources**:

ACGIH 2000.


Thermomelt® HEAT-STIK Marker 250 °F (120, 121 °C)

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Abbreviations and acronyms:
- ACGIH (American Conference of Governmental Industrial Hygienists).
- 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.

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-phrases:

| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| H302 | Harmful if swallowed |
| H332 | Harmful if inhaled |
| H411 | Toxic to aquatic life with long lasting effects |

SDS Prepared by: The Redstone Group, LLC
6397 Emerald Pkwy.
Suite 200
Dublin, OH USA 43016
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.