

547-017

# Thermomelt® HEAT-STIK Markers 175 °F (79, 80 °C), 182 °F (83 °C)

LA-CO Industries, Inc.

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
according to Canadian Hazardous Products Regulations (HPR)  
Date of issue: 03/11/2015  
Version: 1.0

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

### 1.1. Product identifier

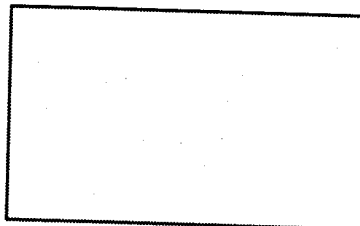
Product form : Mixture  
Product name : Thermomelt® HEAT-STIK Markers 175 °F (79, 80 °C), 182 °F (83 °C)

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

P/N 86481

### 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

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

## 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 (Dermal) H312  
Acute Tox. 4 (Inhalation:dust,mist) H332

Full text of H-phrases: see section 16

### 2.2. Label elements

#### GHS-US labelling

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US)

Hazard statements (GHS-US)

Precautionary statements (GHS-US)

- : Warning
- : H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
- : 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
- : P280 - Wear eye protection, protective gloves
- : P301+P312 - If swallowed: Call a POISON CENTER, a doctor if you feel unwell
- : P302+P352 - If on skin: Wash with plenty of water
- : 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
- : P321 - Specific treatment (see First aid measures on this label)
- : P330 - Rinse mouth
- : P362+P364 - Take off contaminated clothing and wash it before reuse
- : 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

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### 3.2. Mixture

Name	Product identifier	% (w/w)	GHS-US classification
2-methoxyacetoacetanilide	(CAS No) 92-15-9	75.63 - 84.03 in 175 °C 78.26 - 86.96 in 182 °C	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332

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 : 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 : Immediately call a POISON CENTER or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse.
- 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 inhalation : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.
- Symptoms/injuries after skin contact : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.
- 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 : Carbon dioxide. Dry powder. Foam. Water spray. Sand.
- 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. In case of inadequate ventilation wear respiratory protection.
- Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

- Protective equipment : Wear suitable gloves. 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.

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### 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.  
 Incompatible products : Strong acids. Strong oxidizers. Strong bases.

### 7.3. Specific end use(s)

Temperature indicator.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Thermomelt® HEAT-STIK Markers 175 °F (79, 80 °C), 182 °F (83 °C)	
ACGIH	Not applicable
OSHA	Not applicable
2'-methoxyacetoacetanilide (92-15-9)	
ACGIH	Not applicable
OSHA	Not applicable

### 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 : Wear suitable gloves resistant to chemical penetration. Impermeable protective nitrile gloves.  
 Eye protection : In case of dust production: protective goggles.  
 Respiratory protection : Wear approved mask. 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 : light blue. Off-white. light yellow.  
 Odour : odourless.  
 Odour threshold : No data available  
 pH : No data available  
 Relative evaporation rate (butyl acetate=1) : No data available  
 Melting point : Varies per product  
 Freezing point : No data available  
 Boiling point : No data available  
 Flash point : 150 - 157 °C  
 Auto-ignition temperature : No data available  
 Decomposition temperature : No data available  
 Flammability (solid, gas) : No data available

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Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: > 1
Solubility	: No data available
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

Strong oxidizing agents. Strong bases. Strong acids.

### 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. Dermal: Harmful in contact with skin. Inhalation:dust,mist: Harmful if inhaled.

Thermomelt® HEAT-STIK Markers 175 °F (79, 80 °C), 182 °F (83 °C)	
ATE CLP (oral)	1883.700 mg/kg bodyweight
ATE CLP (dermal)	1265.000 mg/kg bodyweight
ATE CLP (dust,mist)	1.725 mg/l/4h
2'-methoxyacetoacetanilide (92-15-9)	
LD50 oral rat	1638 mg/kg male; 1635 mg/kg female
ATE CLP (oral)	1638.000 mg/kg bodyweight
ATE CLP (dermal)	1100.000 mg/kg bodyweight
ATE CLP (dust,mist)	1.500 mg/l/4h

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	

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Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.
Symptoms/injuries after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.
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

<b>2'-methoxyacetoacetanilide (92-15-9)</b>	
LC50 fish 1	332 mg/l 96 h
EC50 Daphnia 1	> 85 mg/l 96 h

#### 12.2 Persistence and degradability

<b>2'-methoxyacetoacetanilide (92-15-9)</b>	
Persistence and degradability	Readily biodegradable.
Biodegradation	59 % 28 d

#### 12.3 Bioaccumulative potential

<b>2'-methoxyacetoacetanilide (92-15-9)</b>	
Log Pow	0.91

#### 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 by sea

No additional information available

#### Air transport

No additional information available

### SECTION 15: Regulatory information

#### 15.1 US Federal regulations

<b>2'-methoxyacetoacetanilide (92-15-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

#### 15.2 International regulations

##### CANADA

<b>2'-methoxyacetoacetanilide (92-15-9)</b>	
Listed on the Canadian DSL (Domestic Substances List) inventory.	

##### EU-Regulations

<b>2'-methoxyacetoacetanilide (92-15-9)</b>	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	

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### National regulations

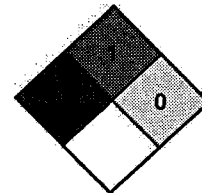
**Thermomelt® HEAT-STIK Markers 175 °F (79, 80 °C), 182 °F (83 °C)**  
 All components are listed on the EEC inventory European Inventory of Existing Commercial Chemical Substances (EINECS).  
 All ingredients are listed in the Toxic Substances Control Act (TSCA).  
 All ingredients are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).

### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

- Indication of changes : Original Document.  
 Data sources : ACGIH 2000.  
 Canadian Centre for Occupational Health and Safety. Accessed at:  
[http://www.ccohs.ca/oshanswers/legisl/whmis\\_classifi.html](http://www.ccohs.ca/oshanswers/legisl/whmis_classifi.html).  
 ESIS (European chemical Substances Information System; accessed at:  
<http://esis.jrc.ec.europa.eu/index.php?PGM=cla>.  
 European Chemicals Agency (ECHA) Registered Substances list. Accessed at  
<http://echa.europa.eu/>. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to  
 Chemical Protective Clothing", Fifth Edition.  
 National Fire Protection Association; Fire Protection Guide to Hazardous Materials; 10th  
 edition.  
 OSHA 29CFR 1910.1200 Hazard Communication Standard.  
 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE  
 COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and  
 mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending  
 Regulation (EC) No 1907/2006.  
 TSCA Chemical Substance Inventory. Accessed at  
<http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html>.  
 : 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.  
 Other information : None.  
 NFPA health hazard : 2 - Intense or continued exposure could cause temporary  
 incapacitation or possible residual injury unless prompt  
 medical attention 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 (Dermal)	Acute toxicity (dermal), Category 4
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
H302	Harmful if swallowed
H312	Harmful in contact with skin
H332	Harmful if inhaled

SDS Prepared by: The Redstone Group, LLC  
 6397 Emerald Pkwy.

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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*