

# Material Safety Data Sheet

## Section 1 Product and Company Identification

Product Name: **Thermomelt Stik and Pellet 175°F / 79°C**

MSDS #: T175

Date Prepared: June 20, 1994

Revision #: 2.1

Date Revised: 6/23/04

Manufacturer:

**LA-CO INDUSTRIES, Inc.** *Markal Co.*

1201 Pratt Blvd.

Elk Grove Village, IL, USA 60007-5746

Information Telephone: 847-956-7600

Emergency Telephone: Call CHEMTREC

USA 800-424-9300

International (Call Collect) 1-703-527-3887

**Chemical Formula:** Mixture

**CAS No.:** Not Applicable. **Derivation:** Not Applicable.

**Synonyms:** Not Applicable.

**General Use:** Temperature Indicator.

Supplier/Importer:

## Section 2 Composition/Information on Ingredients

**Ingredient**

3-oxo-N-phenylbutanamide <sup>3,5</sup>

**CAS No.**

102-01-2

**%**

95

(For Section 2 footnotes: See Section 15)

## Section 3 Hazards Identification

**EMERGENCY OVERVIEW:** WARNING. HARMFUL IF INHALED, ABSORBED THROUGH SKIN, OR SWALLOWED. CAN CAUSE CYANOSIS. POWDERED MATERIAL MAY FORM EXPLOSIVE DUST/AIR MIXTURES.

### POTENTIAL HEALTH EFFECTS

**Primary Exposure Routes:** Skin, Ingestion, Inhalation

#### Acute Effects

**Eyes:** Dust or vapor may cause slight irritation.

**Skin:** Harmful if absorbed through skin.

**Ingestion:** Can cause Cyanosis (blue-gray skin and eyes caused by lack of oxygen).

**Inhalation:** Can cause Cyanosis (blue-gray skin and eyes caused by lack of oxygen).

#### Chronic Effects

**Eyes:** None Known.

**Skin:** None Known.

**Ingestion:** Can cause Cyanosis (blue-gray skin and eyes caused by lack of oxygen).

**Inhalation:** Can cause Cyanosis (blue-gray skin and eyes caused by lack of oxygen).

**Carcinogenicity:** Not Applicable.

**Target Organ Effects:** Not Applicable.

**Medical Conditions Aggravated by Long-Term Exposure:** None Determined.

**Other Information:** Note to Physicians: Absorption of this material into the body leads to the formation of methemoglobin that, in sufficient concentration, causes cyanosis. Since reversion of

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methemoglobin to hemoglobin occurs spontaneously after termination of exposure, moderate degrees of cyanosis need to be treated only by supportive measures such as bed rest and oxygen inhalation. Thorough cleansing of the entire contaminated area of the body, including scalp and nails, is of utmost importance. If cyanosis is severe, intravenous injection of methylene blue, one milligram per kilogram of body weight, may be of value.

### Section 4

### First Aid

**Eye Contact:** Flush thoroughly with water for 15 minutes after removing any contact lenses. Consult physician if irritation persists.

**Skin Contact:** Immediately remove any contaminated clothing and shoes. Wash skin with soap and water. Consult physician if irritation persists. Wash contaminated clothing before reuse. Destroy contaminated shoes.

**Ingestion:** Call physician or poison control center immediately. Induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person.

**Inhalation:** Move to fresh air. If breathing is difficult or cyanotic, give oxygen. Get medical attention.

**Other Information:** Note to Physicians: Absorption of this material into the body leads to the formation of methemoglobin that, in sufficient concentration, causes cyanosis. Since reversion of methemoglobin to hemoglobin occurs spontaneously after termination of exposure, moderate degrees of cyanosis need to be treated only by supportive measures such as bed rest and oxygen inhalation. Thorough cleansing of the entire contaminated area of the body, including scalp and nails, is of utmost importance. If cyanosis is severe, intravenous injection of methylene blue, one milligram per kilogram of body weight, may be of value.

### Section 5

### Fire Fighting Measures

**Flash Point (method):** 302°F / 150°C (PMCC)

**Autoignition Temperature:** 845°F / 452°C (ASTM E 659)

**LEL:** Not Determined. **UEL:** Not Determined.

**Flammability Classification:** NFPA Class III B

**Extinguishing Media:** Water Spray, Dry Chemical

**Hazardous Combustion Products:** Carbon dioxide (CO<sub>2</sub>), Carbon monoxide (CO)

**Unusual Fire or Explosion Hazards:** Powdered material may form explosive dust/air mixtures.

**Fire-Fighting Instructions/Equipment:** Keep personnel removed and upwind of any fire. Wear full fire-fighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

### Section 6

### Accidental Release Measures

Use recommended personal protective equipment (see Section 8).

**Small Spill:** Sweep or scrape up.

**Large Spill:** Sweep or scrape up.

### Section 7

### Handling and Storage

**Handling Precautions:** Use recommended personal protective equipment (see Section 8). Wash thoroughly after handling.

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**Storage Requirements:** Store away from incompatible chemicals (see Sec. 10). Store in a cool, dry area.

## Section 8 Exposure Controls/Personal Protection

**Eye/Face Protection:** Safety glasses or goggles recommended.

**Skin/Hand Protection:** Suitable to avoid skin contact.

**Respiratory Protection:** Suitable for organic vapors and dust.

**Other Equipment:** Eye wash and safety shower.

**Engineering Controls:** Normal room ventilation. Local exhaust in confined areas.

**Administrative Controls:** Users of this product must be properly trained and qualified in its use.

**Other Information:** None.

## Section 9 Physical and Chemical Properties

**Appearance/Physical State:** Solid Stick or Pellet.

**Odor:** Low odor in solid state.

**Odor Threshold (ppm):** Not Determined.

**Specific Gravity (H<sub>2</sub>O = 1):** > 1

**Solubility - Water:** Slightly Soluble.

- Fat: Soluble

**Coefficient of Water/Oil Solubility:** <1

**Partition Coefficient (n-octanol/water):** P = 5

**pH:** Not applicable.

**Melting Point:** 175°F / 79°C

**Boiling Point:** Not Applicable.

**Vapor Pressure (mm Hg at 20°C):** 0.01

**Vapor Density (Air = 1):** Not Applicable.

**Evaporation Rate (n-BuAc=1):** < 1

**V.O.C.:** 0%(w/w), 0%(v/v), 0 lbs./gal.(U.S.), 0 kg/l

**Flash Point (method):** (see Section 5)

**Autoignition Temperature:** (see Section 5)

**Flammability Classification:** (see Section 5)

**Unusual Fire or Explosion Hazards:** (see Section 5)

**Oxidizing Properties:** Not Applicable.

**Other Information:** None.

## Section 10 Stability and Reactivity

**Chemical Stability:** Stable

**Hazardous Polymerization:** Will Not Occur

**Conditions to Avoid:** Not Applicable.

**Chemicals to Avoid:** Strong Oxidizers.

**Hazardous Decomposition Products (non-thermal):** Not Applicable.

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## Section 11 Toxicological Information

**Sensitization to Product:** Not Applicable.  
**Irritancy of Product:** Not applicable.  
**Reproductive Toxicity:** Not Applicable.  
**Teratogenicity:** Not Applicable.  
**Mutagenicity:** Not Applicable.

Further hazard information, if applicable, may be found in Section 3. Toxicological information regarding individual ingredients, if applicable, may be found in Section 2.

## Section 12 Ecological Information

When diluted with a large amount of water, this material released directly or indirectly into the environment is not expected to have significant impact.

**Mobility:** Not Determined.  
**Degradability:** Not Determined.  
**Accumulation:** Not Determined.  
**Ecotoxicity:** Not Determined.  
**Other Adverse Effects:** Not Determined.

## Section 13 Disposal Considerations

Dispose of in accordance with applicable federal, state, and local regulations.

## Section 14 Transport Information

**U.S. D.O.T.**  
**Proper Shipping Name:** Not Regulated.  
**Hazard Class or Division:** Not Regulated.  
**I.D. Number:** Not Regulated.  
**CANADIAN TDG:** Not Regulated.  
**IATA:** Not Regulated.  
**ICAO:** Not Regulated.  
**IMO:** Not Regulated.  
**IMDG:** Not Regulated.  
**Australian Code for the Transport of Dangerous Goods**  
**Dangerous Goods Class and Subsidiary Risk:** Not Determined.

## Section 15 Regulatory Information

### Footnotes for Section 2:

- 1 Subject to the reporting requirements of SARA Title III, Section 313.
- 2 Appears on the California Safe Drinking Water and Toxic Enforcement Act Substances List.
- 3 Appears on the Massachusetts Substances List.

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- 4 Appears on the New Jersey Right-To-Know Hazardous Substances List.
- 5 Appears on the Pennsylvania Hazardous Substances List.
- 6 Appears on the Canadian WHMIS Ingredient Disclosure List.

#### U.S.A.

**OSHA Hazard Status:** This product is considered to be hazardous as defined by the U.S. OSHA HCS (29 CFR 1910.1200).

**EPA SARA sec. 311/312 Hazard Categories:** Immediate (acute) Health Hazard.

**Toxic Substances Control Act (TSCA):** All ingredients contained in this product are listed on the U.S. EPA TSCA Chemical Substance Inventory.

**HMIS Rating:** Health 2, Flammability 1, Reactivity 0

**NFPA Rating:** Health 2, Flammability 1, Reactivity 0

#### CANADA

**WHMIS Status:** This product is considered to be hazardous as defined by Canadian WHMIS Controlled Products Regulations.

**WHMIS Rating:** D-2B

**WHMIS Risk Phrases:** Warning. Harmful if inhaled, absorbed through skin, or swallowed. Can cause cyanosis. Powdered material may form explosive dust/air mixtures.

**WHMIS Precautionary Statements:** Keep out of reach of children, Do not breath vapor, Avoid contact with skin, Wear suitable protective clothing and gloves, If swallowed, seek medical advice and show this container, label or Safety Data Sheet.

**Domestic Substances List (DSL):** All ingredients contained in this product are listed on the Canadian EPA (CEPA) Domestic Substances List (DSL).

#### E.U.

**European Inventory of Existing Chemical Substances (EINECS):** All ingredients contained in this product are listed on the European Inventory of Existing Chemical Substances (EINECS).

**Categories of Danger (Labeling Information):** Harmful (Xn) Labeling not required per regulation 9 (7) of CHIP.

**Risk (R) Phrases:** Harmful by inhalation, contact with skin and if swallowed (R20/21/22)

**Safety (S) Phrases:** Keep out of reach of children (S2), Do not breath vapor (S23), Avoid contact with skin (S24), Wear suitable protective clothing and gloves (S36/37), If swallowed, seek medical advice and show this container, label or Safety Data Sheet (S46)

#### AUSTRALIA

**Worksafe Australia Status:** This product is classified as hazardous according to criteria of Worksafe Australia.

**HAZCHEM Code (Australia):** Not Determined.

**Poisons Schedule Number (Australia):** Not Determined.

Further regulatory information regarding individual ingredients, if applicable, may be found in Section 2.

This product has been classified in accordance with the hazard criteria of the U.S. OSHA Hazard Communication Standard, the Canadian WHMIS Controlled Products Regulations, the British CHIP2 regulation 6, and the Australian NMRCWHS. This MSDS contains the information required by the above regulations and conforms to ANSI Z400.1-1993.

## Section 16

## Other Information

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**MSDS Prepared By:** Director of Chemical Safety

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