

Material Safety Data Sheet

Section 1 - Product and Company Identification

Product Name: THERMOMELT STIK and Pellet 625°F/329°C

Manufacturer:

Supplier/Importer:

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

1201 Pratt Blvd.

Elk Grove Village, IL 60007

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.: Mixture **Synonyms:** None **Derivation:** Not Applicable

General Use: Temperature indicator

Section 2 - Composition/Information on Ingredients

<u>Ingredient</u>	<u>CAS No.</u>	<u>%</u>
Potassium Nitrate ^{3,4,5}	7757-79-1	95

(For Section 2 footnotes: See Section 15)

Section 3 - Hazards Identification

EMERGENCY OVERVIEW: Irritant, Oxidizer.

Primary Entry Routes: Inhalation, Ingestion

Acute Effects

Signs and Symptoms of Exposure: Irritation at contact site.

Eyes: Dust and fumes may cause irritation.

Skin: Prolonged or repeated exposure may cause irritation.

Ingestion: Causes irritation of the mouth and gastrointestinal tract. Large doses may have serious and even fatal effects. May cause dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness, general depression, headache, and mental impairment.

Inhalation: May irritate the nose, throat and respiratory tract. May cause coughing and chest discomfort.

Chronic Effects

Can cause anemia, nephritis, and methemoglobinemia.

Eyes: Not Applicable

Skin: Not Applicable

Ingestion: Not Applicable

Inhalation: Not Applicable

Carcinogenicity: Not Applicable

Target Organ Effects: Not Applicable

Medical Conditions Aggravated by Long-Term Exposure: Not Determined

Other Information: Not Applicable

HMIS Rating: Health 2, Flammability 0, Reactivity 1

Section 4 - First Aid

Eye Contact: Immediately flush with plenty of running water for 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention.

Skin Contact: Wash with soap and water. Get medical attention if irritation develops.

Ingestion: Do not induce vomiting. If victim is conscious, give plenty of water to drink. Get medical attention.

Inhalation: Remove victim to fresh air. Give oxygen for difficult breathing, artificial respiration if not breathing. Get medical attention.

Other Information: Not Applicable

Section 5 - Fire Fighting Measures

Flash Point (method): Not Applicable

Autoignition Temperature: Not Applicable

LEL: Not Applicable **UEL:** Not Applicable

Flammability Classification: Not Determined

Extinguishing Media: Flood with water.

Hazardous Combustion Products: Releases toxic fumes of nitrogen oxides and potassium oxide with thermal decomposition.

Unusual Fire or Explosion Hazards: Upon decomposition, this material releases oxygen which, if confined, can increase explosive limits and burning rate of flammable vapors and organic materials.

Fire-Fighting Instructions/Equipment: Use self-contained breathing apparatus and protective clothing.

NFPA Rating: Health 2, Flammability 0, Reactivity 1

Section 6 - Accidental Release Measures

Sweep or scrape up.

Section 7 - Handling and Storage

Handling Precautions: Wash after use.

Storage Requirements: Store in a cool, dry area.

Section 8 - Exposure Controls/Personal Protection

Eye Protection: Safety glasses recommended.

Skin Protection: Protective gloves to avoid skin contact.

Respiratory Protection: NIOSH approved dust respirator in poorly ventilated area.

Other Personal Protective Equipment: Eye wash and safety shower.

Ventilation: Normal room ventilation. Local exhaust in confined areas recommended to control fumes.

Product: THERMOMELT STIK and PELLET 625F/329C

Engineering Controls: Not Applicable

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

Other Information: Not Applicable

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: >1

Solubility in Water: Partial.

pH: Not Applicable

Melting Point: 625°F/329°C

Boiling Point: Not Applicable

Vapor Pressure (mm Hg at 20°C): Not Applicable

Vapor Density (Air = 1): Not Applicable

Evaporation Rate (n-BuAc=1): Not Applicable

V.O.C.: 0%(w/w), 0%(v/v), 0 lbs./gal.

Section 10 - Stability and Reactivity

Chemical Stability: Stable

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Heat above 752°F/400°C and contamination of any kind.

Chemicals to Avoid: Combustible materials such as wood, cloth, or organic materials. Can react violently with reducing agents, heat above 752°F/400°C and contamination of any kind.

Hazardous Decomposition Products: Releases toxic fumes of nitrogen oxides and potassium oxide with thermal decomposition.

Section 11 - Toxicological Information

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

Section 12 - Ecological Information

Not Applicable

Section 13 - Disposal Considerations

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

Product: THERMOMELT STIK and PELLET 625F/329C

Section 14 - Transport Information

DOT, IATA, ICAO, IMO, TDG:

Proper Shipping name: Potassium Nitrate
Hazard Class: 5.1
I.D. No.: UN1486
Packing Group: III
Label: OXIDIZER

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.
- 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.

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

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

WHMIS Rating (Canada): D-1B, D-2B

Risk Phrases (Canada): Irritant, Oxidizer

Precautionary Statements (Canada): Avoid direct contact. Avoid contact with combustibles and reducing agents.

CHIP2 Hazard Categories: Oxidising (O), Irritant (Xi)

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

Section 16 - Other Information

MSDS No.: T625F

Revision No.: 1.3

Date Prepared: October 12, 1994

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Prepared By: Director of Chemical Safety

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