


SAFETY DATA SHEET

Section 1: Product and Company Identification

Product Name: All Weather® Twist-Stik® Livestock Markers
Product Code: 61040, 61061, 61062, 61065, 61066, 61072, 61076, 61086, 61087
Product Use: Crayon for livestock marking.
Manufacturer: LA-CO Industries, Inc.
 1201 Pratt Boulevard
 Elk Grove Village, IL.
 60007-5746
 E-mail Contact: customer_service@laco.com
Phone Number: (847) 956-7600
Fax: (847) 956-9885
24-hour Emergency: CHEMTREC: (800) 424-9300

Section 2: Hazards Identification

Protective Clothing	NFPA Rating (USA)	EC Classification	WHMIS (Canada)	Transport
Not Required for Normal Use		Not Classified as Dangerous	Not Controlled	Not regulated as a dangerous good

Emergency Overview: Exposure to hazardous or dangerous substances is not expected when handling this product for its intended use.

Appearance, Color and Odor: Cylindrical crayon in a plastic tube, color specified on label, mild odor of mineral oil.

USA: This product is not a hazardous material as defined by 29 CFR1910.1200, OSHA Hazard Communication Evaluation. This product meets the definition of an "article".

Canada: This is not a controlled product under WHMIS. This product meets the definition of a "manufactured article" and is not subject to the regulations of the Hazardous Products Act.

European Communities (EC): This product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Potential Health Effects

ACUTE (short term): see Section 8 for exposure controls

Relevant Route(s) of Exposure:

Skin contact.

Inhalation: Exposure to hazardous substances by inhalation is not expected with normal use of the marker. High temperatures may generate vapors which may cause irritation to the nose, throat and upper respiratory tract.

Ingestion: Not an expected route of occupational exposure. Acute oral toxicity of the component substances is low.

Skin: Normal use of marker will not result in harmful effects.

Eye: Not an expected route of occupational exposure.

CHRONIC (long term): see Section 11 for additional toxicological data

Long-term health effects are not expected with normal use of the marker.

Medical Conditions Aggravated by Exposure: Not available

Interactions With Other Chemicals: Not available

Potential Environmental Effects: Not available

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Section 3: Composition / Information on Ingredients

Hazardous Ingredients:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Wt. %</u>	<u>EINECS / ELINCS</u>	<u>Symbol</u>	<u>Risk Phrases</u>
White mineral oil (petroleum)	8042-47-5	30 - 60	232-455-8	None	None
Parrafin wax	8002-74-2	15 - 40	232-315-6	None	None
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	10 - 30	265-155-0	Not applicable contains <3% DMSO extract by IP 346.	

Section 4: First Aid Measures

Inhalation:	If symptoms are experienced remove source of contamination or move victim to fresh air and obtain medical advice.
Eye Contact:	No effects expected. If irritation occurs, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.
Skin Contact:	No health effects expected. If irritation does occur, flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.
Ingestion:	If irritation or discomfort occurs, obtain medical advice immediately.

Section 5: Fire Fighting Measures

Flammable Properties:	Product will burn if involved in a fire.
Suitable extinguishing Media:	For small fires, use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. For large fires, use carbon dioxide, dry chemical powder, alcohol-resistant foam or polymer foam. Firefighting foams are the extinguishing agent of choice for most flammable liquid fires. Use water spray to cool fire-exposed containers.
Unsuitable extinguishing Media:	Not available
Explosion Data:	
Sensitivity to Mechanical Impact:	Not applicable
Sensitivity to Static Discharge:	Not applicable
Specific Hazards arising from the Chemical:	Combustion may produce toxic and irritating fumes and gases.
Protective Equipment and precautions for firefighters:	Self-contained breathing apparatus and protective clothing should be worn. Remove all unprotected personnel.
NFPA	
Health:	0
Flammability:	1
Instability:	0

Section 6: Accidental Release Measures

Personal Precautions:	No special requirements.
Environmental Precautions:	Prevent the product from entering sewers or waterways.
Methods for Containment:	No special methods required.
Methods for Clean-up:	Collect spilled markers for re-use. Dispose of any contaminated, unusable product as described in Section 13 of this Safety Data Sheet.

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Section 7: Handling and Storage

Handling: Avoid contact with skin and eyes. Do not use near sources of extreme heat. Keep out of reach of children.
Storage: Store out of direct sunlight and away from extreme heat and flames. Keep markers closed when not in use.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines

Measurable airborne concentrations of the component substances, listed in Section 3, are not expected when the markers are used for their intended purpose. Consult local authorities for acceptable exposure limits.

<u>Ingredient</u>	<u>ACGIH TLV</u> <u>(8-hr. TWA)</u> mg/m ³	<u>U.S. OSHA PEL</u> <u>(8-hr. TWA)</u> mg/m ³	<u>Ontario (Canada)</u> <u>TWAEV</u> mg/m ³	<u>UK OEL</u> <u>(8-hr. TWA)</u> mg/m ³
Parrafin wax	2 (fume)	2 (fume)	2 (fume)	2 (fume) 6 (fume) STEL

STEL = Short Term Exposure Limit

Exposure Controls

Engineering Controls: Not required for normal conditions of use.
 If product is overheated, provide adequate ventilation to keep fume concentrations below the exposure limits listed above.

Personal Protection:

Eye/Face Protection: Not required for normal use.

Skin Protection: Not required for normal use.

Respiratory Protection: Not required for normal use

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements, European Standard EN529 or Canadian Standards Association (CSA) Standard Z94.4-2002 must be followed whenever workplace conditions warrant a respirator's use.

General Hygiene Measures: Do not ingest. Avoid contact with skin and eyes. Keep out of reach of children. Wash hands after handling.

Section 9: Physical and Chemical Properties

Physical State:	Solid	Flash Point & method:	204°C (400°F)
Appearance, Color and Odor:	Crayon in a cylindrical, plastic twist-up holder; various colors; odor of mineral oil.	Autoignition Temperature:	Not available
Odor Threshold:	Not available	Flammability Limits in Air:	Not available
pH:	Not applicable	Vapor Pressure:	Not applicable
Specific Gravity:	>1	Vapor Density:	Not applicable
Partition coefficient:	Not available	Evaporation Rate:	Not applicable
Solubility:	Insoluble in water. Soluble in organic solvents.	Boiling Point/Range:	Not available
Viscosity:	Not applicable	Melting Point:	Not available
Decomposition Temperature:	Not available	VOC Content:	0% w/w

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Section 10: Stability and Reactivity

Chemical Stability:	Stable at normal room temperature.
Conditions to Avoid:	Avoid extreme heat and open flames.
Incompatible Materials:	Incompatible with strong oxidizing agents.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide.
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.

Section 11: Toxicological Information

Acute Toxicity Data

Acute toxicology data are not available for the markers. Toxicology data for the primary component substances are listed below.

<u>Component substance</u>	<u>LD₅₀ Oral</u> (mg/kg)	<u>LD₅₀ Dermal</u> (mg/kg)	<u>LC₅₀ Inhalation</u> (4 hrs.)
White mineral oil (petroleum)	>5 000 (rat)	Not available	Not applicable
Parrafin wax	>3 750 (rat)	>3 600 (rabbit)	Not applicable
Distillates (petroleum), hydrotreated heavy naphthenic	>5 000 (rat)	>2 000 (rabbit)	Not available

Chronic Toxicity Data

Carcinogenicity:

Distillates (petroleum), hydrotreated heavy naphthenic, has less than 3% DMSO extract as measured by IP 346. This product is not required to be labeled according to the European Directive 67/548/EEC. Normal use of this product will not result in exposure to any component that is considered a human carcinogen by IARC (International Agency for Research on Cancer), ACGIH (American Conference of Governmental Industrial Hygienists, OSHA or NTP (National Toxicology Program).

Several colors of marker contain Titanium dioxide bound in the solid composite. IARC has listed exposure to powdered Titanium dioxide in Group 2B, based on limited evidence of human carcinogenicity from long-term inhalation exposure to high concentrations of pigmentary (powdered) or ultra-fine titanium dioxide. Inhalation exposures of titanium dioxide are relevant for this solid, composite product.

Irritation:	Normal use of marker will not result in harmful effects.
Corrosivity:	Not available
Sensitization:	Not applicable with normal use of the marker.
Neurological Effects:	Not applicable with normal use of the marker.
Genetic Effects:	Not available
Reproductive Effects:	Not applicable with normal use of the marker.
Developmental Effects:	Not applicable with normal use of the marker.
Target Organ Effects:	Not applicable

Section 12: Ecological Information

Ecotoxicity:	Not available
Persistence/Degradability:	Not available
Bioaccumulation/Accumulation:	Not available
Mobility:	Not available

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Section 13: Disposal Considerations

Waste Disposal Method: Do NOT dump into any sewers, on the ground or into any body of water. Store material for disposal as indicated in Section 7 Handling and Storage. The conditions of use, storage and disposal of this product are beyond our control and may be beyond our knowledge. For this and other reasons, LA-CO Industries, Inc. does not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

USA: Dispose of in accordance with local, state and federal laws and regulations.

Canada: Dispose of in accordance with local, provincial and federal laws and regulations.

EC: Waste must be disposed of in accordance with relevant EC Directives and national, regional and local environmental control regulations. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

Section 14: Transport Information:

U.S. Hazardous Materials Regulation (DOT 49CFR): Not regulated as a dangerous good for transport

Canadian Transportation of Dangerous Goods (TDG): Not regulated

ADR/RID: Not regulated

IMDG: Not regulated

Marine Pollutants: Not applicable

ICAO/IATA: Not regulated

Section 15: Regulatory Information

USA

TSCA Status: All ingredients in the product are listed on the TSCA inventory.

SARA Title III

Sec. 302/304: None

Sec. 311/312: Not applicable

Sec. 313: Not applicable

CERCLA RQ: Not applicable

State Right-to-Know Lists : State right to know lists: Paraffin wax, Titanium dioxide, Carbon black: Massachusetts, New Jersey, Pennsylvania.

Canada

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

WHMIS Classification: Not controlled
(for workplace exposures)

New Substance Notification Regulations: All ingredients in the product are listed, as required, on Canada's Domestic Substances List (DSL).

NPRI Substances: White mineral oil (8042-47-5) is a NPRI reportable substance, Part 5 substance.

EC Classification for the Substance/Preparation

Symbol: This product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

European Inventories: White mineral oil (CAS 8042-47-5), Paraffin wax (CAS 8002-74-4) are listed in the Inventory of Cosmetic Ingredients Directive (INCI).

SAFETY DATA SHEET**Section 16: Other Information****Preparation Information:****Revision Date:** September 14, 2011**Manufacturer Disclaimer:**

The information contained herein is based on data available to us and is accurate and reliable to the best of our knowledge and belief. However, LA-CO Industries, Inc. makes no representations as to its completeness or accuracy. Information is supplied on condition that persons receiving such information will make their own determination as to its suitability for their purposes prior to use. In no event will LA-CO Industries, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information contained herein.

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