



SAFETY DATA SHEET

Section 1: Product and Company Identification

Product Name: ALL-WEATHER® Plastic Ear Tag Marker – Medium Tip White
Product Code: 96638, 96639
Product Use: Weather-resistant marker for polyurethane tags
Supplier: LA-CO Industries, Inc.
 1201 Pratt Boulevard
 Elk Grove Village, IL.
 60007-5746
 E-mail Contact: customer_service@laco.com
Phone: (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)	Transportation
Not Required for Normal Use		Not Classified as Dangerous	 Not controlled	Not Regulated

Emergency Overview: The ink inside the marker contains components which are considered hazardous if swallowed, by inhalation of vapors, eye and skin contact. Exposure to hazardous substances is not expected when handling this product for its intended use.

Appearance, Color and Odor: Marker containing less than 10 mL of white ink. Organic solvent odor.

USA: This product is not a hazardous material as defined by 29 CFR1910.1200, OSHA Hazard Communication Standard. 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 article is not classified as dangerous according to Directive 1999/45/EC and Regulation (EC) No 1272/2008.

Potential Health Effects

ACUTE (short term):

Relevant Route(s) of Exposure: Skin contact.

Inhalation: Exposure to hazardous substances by inhalation is not expected with normal use of the marker.

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. The ink may cause irritation when in contact with the skin.

Eye: Not an expected route of occupational exposure. Liquid and concentrated vapors can irritate the eyes.

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

Long-term health effects are not expected with normal use of the marker. Prolonged or repeated contact with of the ink to skin may result in defatting and drying of skin and may result in dermatitis.

Medical Conditions Aggravated by Exposure: Preexisting skin disorders may be aggravated by repeated skin exposure to the liquid in the marker.

Interactions With Other Chemicals: Not available

Potential Environmental Effects: Not available

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Section 3: Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Wt. %</u>	<u>EINECS / ELINCS</u>	<u>Symbol</u>	<u>Risk Phrases</u>
1-methoxypropan-2-ol	107-98-2	40 – 50	203-539-1	None	R10 - 67
1-methyl-2-pyrrolidone	872-50-4	10 – 20	212-828-1	T; Xi	R36/37/38 Repr. Cat. 2; R61

See Section 16 for the full text of the R-phrases above.

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 swallowed, obtain medical advice immediately.

Section 5: Fire Fighting Measures

Flammable Properties:	Ink contained within the markers is flammable.
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:	If involved in a fire, 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:	If large volumes of liquid ink are released, wear protective gloves, goggles and clothing. Ventilate the area. Monitor the workplace air for harmful concentrations of vapors and take appropriate precautions if concentrations in air exceed workplace exposure limits.
Environmental Precautions:	Prevent the product from entering sewers or waterways.
Methods for Containment:	If large volumes of liquid ink are released, stop the leak if it is safe to do so. Contain spilled ink with earth, sand, or absorbent material which does not react with spilled material.
Methods for Clean-up:	Clean up spills immediately. Shut off or extinguish all sources of ignition. Immediately soak spilled material with water. Soak up spill with absorbent material which does not react with spilled chemical. Put material in suitable, covered, labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Dispose of any contaminated, unusable product as described in Section 13 of this SDS.

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Section 7: Handling and Storage

Handling: Avoid breathing vapors. Do not use near sources of extreme heat. Keep out of reach of children.

Storage: Store in a cool, dry area, out of direct sunlight and away from heat, flames and ignition sources. 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.

Exposure Controls

Engineering Controls: Not required for normal use.

Personal Protection:

Eye/Face Protection: Not required for normal use. In case of accidental release of large quantities of ink, wear goggles.

Skin Protection: Not required for normal use. In case of accidental release of large quantities of ink, wear gloves.

Respiratory Protection: Not required for normal use.

General Hygiene Measures: Avoid breathing vapors. Do not ingest. Avoid contact of the ink to skin and eyes. Keep out of reach of children.

Section 9: Physical and Chemical Properties

Physical State:	Solid, containing liquid ink.	Flash Point & method:	31°C (88°F) setaflash for 1-methoxypropan-2-ol
Appearance, Color and Odor:	Cylindrical marker; white odor of organic solvent.	Autoignition Temperature:	287°C (594°F) for 1-methoxypropan-2-ol
Odor Threshold:	Not available	Flammability Limits in Air:	LEL: 1.5 UEL: 13.74 at 151°C for 1-methoxypropan-2-ol
pH:	Not applicable	Vapor Pressure:	11.8 for 1-methoxypropan-2-ol
Specific Gravity:	1.1	Vapor Density:	3.12 for 1-methoxypropan-2-ol
Partition coefficient: (n-octanol/water)	Approximately 0.7	Evaporation Rate:	<1
Solubility in water:	Approximately 60% soluble	Boiling Point/Range:	120°C (248°F) for 1-methoxypropan-2-ol
Viscosity:	Not applicable	Melting Point:	Not available
Decomposition Temperature:	Not available	VOC Content:	62 % (w/w) for liquid ink

Section 10: Stability and Reactivity

Chemical Stability: Stable at normal room temperature.

Conditions to Avoid: Do not use in conditions of extreme heat or near open flames.

Incompatible Materials: Incompatible with strong oxidizing agents.

Hazardous Decomposition Products: Not applicable

Possibility of Hazardous Reactions: Not applicable

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Section 11: Toxicological Information

Acute Toxicity Data	Acute toxicity data is not available for the liquid ink preparations inside the markers. The ink contains substances which are considered irritants by inhalation and in contact with eyes and skin however, exposure to these substances by the user is not expected when the marker is used for its intended purpose.
<u>Other Toxicity Data</u>	
Carcinogenicity:	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).
Irritation:	Normal use of marker will not result in harmful effects. High concentrations of vapors may cause irritation to the eyes and respiratory tract. Ink may cause irritation in contact with eyes and skin.
Corrosivity:	Not applicable
Sensitization:	Not applicable
Neurological Effects:	Not applicable with normal use of the marker. Overexposure to vapors may cause drowsiness and dizziness.
Genetic Effects:	Not applicable
Reproductive Effects:	Not applicable
Developmental Effects:	Not applicable with normal use of the marker. Overexposure may damage the unborn child.
Target Organ Effects:	Not applicable

Section 12: Ecological Information

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

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.

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Section 14: Transport Information:

U.S. Hazardous Materials Regulation (DOT 49CFR):	Not regulated, this product conforms to small quantity exception of DOT 49CFR173.4.
Canadian Transportation of Dangerous Goods (TDG):	Not regulated
ADR/RID:	Not regulated
IMDG:	Not regulated
Marine Pollutants:	Not applicable
ICAO/IATA:	Dangerous goods in excepted quantity.

Section 15: Regulatory Information

USA

TSCA Status: All component substances are listed on the TSCA inventory.

SARA Title III

Sec. 302/304: None
 Sec. 311/312: Flammable
 Sec. 313: 1-methyl-2-pyrrolidone
 CERCLA RQ: None

California Prop 65: This product contains the following chemicals known to the State of California to cause birth defects or other reproductive harm: 1-methyl-2-pyrrolidone.
 Contains Titanium dioxide but not as airborne, unbound particles of respirable size.

State Right-to-Know Lists : 1-methoxypropan-2-ol can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.
 1-methyl-2-pyrrolidone can be found on the following state right to know lists: Pennsylvania, Minnesota, Massachusetts.
 Titanium dioxide can be found on the following state right to know lists: New Jersey, Pennsylvania, Massachusetts. Contains Titanium dioxide but not as airborne, unbound particles of respirable size.

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: (for workplace exposures) Not controlled. Product meets the definition of a "manufactured article" and is not subject to the regulations of the Hazardous Products Act.

New Substance Notification Regulations: All component substances are listed on Canada's Domestic Substances List (DSL).

NPRI Substances: 1-methyl-2-pyrrolidone is an NPRI Reportable Substance.

EC Classification for the Substance/Preparation

European Inventories: All component substances are listed in EINECS.

Symbol: This article is not classified as dangerous according to Directive 1999/45/EC and Regulation (EC) No 1272/2008.

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Section 16: Other Information

Full Text of R-phrases appearing in Section 2:

R10: Flammable.
R61: May cause harm to the unborn child.
R67: Vapours may cause drowsiness and dizziness.
R36/37/38: Irritating to eyes, respiratory system and skin.

Preparation Information:

Revision Date:

November 15, 2011

Revision Summary:

November 1, 2005-Original
November 17, 2008: SDS template update.
November 15, 2011: Section 3, EU Risk phrase; Section 15 California Prop. 65.

Manufacturer Disclaimer:

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