

SAFETY DATA SHEET

Section 1: Product and Company Identification

Product Name: PRO-MAX® Liquid Paint Marker


Product Code: 90900 (white), 90901 (yellow), 90902 (red), 90903 (black), 90904 (orange), 90905 (blue).

Product Use: Marker for metal, suitable for wood, glass, plastic rubber and more with marking range -50°F to 150°F (-46C to 66°C).

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)	Transport
Not Required for Normal Use		Not Classified as Hazardous	Not Controlled	Not Regulated

Emergency Overview: The paint inside the marker contains components which are flammable. Exposure to hazardous substances is not expected when handling this product for its intended use.

Appearance, Color and Odor: Marker containing colored paint. Ether-like odor.

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 hazardous according to Directive 1999/45/EC and its amendments.

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 paint may cause mild 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 of the liquid paint with skin may result in defatting and drying of skin and may result in dermatitis.

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Section 2: Hazards Identification, continued

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

Interactions With Other Chemicals: Not available

Potential Environmental Effects: Not available

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	60 - 81	203-539-1	None	R10

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 irritation or discomfort occurs, obtain medical advice immediately.

Section 5: Fire Fighting Measures

Flammable Properties: Paint 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

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Section 6: Accidental Release Measures

- Personal Precautions:** If large volumes of liquid paint 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 paint are released, stop the leak if it is safe to do so. Contain spilled paint 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.

Section 7: Handling and Storage

- Handling:** Keep out of reach of children. Avoid breathing vapors. Do not use near sources of extreme heat.
- 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 paint, wear goggles.
 - Skin Protection:** Not required for normal use. In case of accidental release of large quantities of paint, wear gloves.
 - Respiratory Protection:** Not required for normal use.
- General Hygiene Measures:** Avoid breathing vapors. Do not ingest. Avoid contact of the paint to skin and eyes. Keep out of reach of children.

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Section 9: Physical and Chemical Properties

Physical State:	Solid, containing liquid paint.	Flash Point & method:	31°C (88°F) setaflash for 1-methoxypropan-2-ol
Appearance, Color and Odor:	Cylindrical marker; various colors, mild odor of ether.	Autoignition Temperature:	287°C (594°F) for 1-methoxypropan-2-ol
Odor Threshold:	Not available	Flammability Limits in Air:	Lower: 1.7 vol. % Upper: 11.5 vol. %
pH:	Not applicable	Vapor Pressure:	11.8 for 1-methoxypropan-2-ol
Specific Gravity:	0.98 – 1.2 g/L @ 20°C (paint)	Vapor Density:	3.12 for 1-methoxypropan-2-ol
Partition coefficient: (n-octanol/water)	Approximately 0.7	Evaporation Rate:	<1
Solubility in water:	Insoluble in water	Boiling Point/Range:	120°C (248°F) (paint)
Viscosity:	Not applicable	Melting Point:	Not available
Decomposition Temperature:	Not available	VOC Content:	65 - 80%

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:	Liquid paint is incompatible with strong oxidizing agents.
Hazardous Decomposition Products:	Not applicable with normal use of the marker.
Possibility of Hazardous Reactions:	Not available

Section 11: Toxicological Information

Acute Toxicity Data

Acute toxicity data is not available for the liquid paint mixture. Acute toxicity data for the primary component in the paint is listed below.

<u>Ingredient</u>	<u>LD₅₀ Oral (mg/kg)</u>	<u>LD₅₀ Dermal (mg/kg)</u>	<u>LC₅₀ Inhalation (4 hrs.)</u>
1-methoxypropan-2-ol	5 200 (rat)	13 000 (rabbit)	54.6 mg/L/4 hour (rat) / 24 mg/L/1 hour (rat)

Other Toxicity Data

Carcinogenicity:	This product does not contain 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. Paint may cause irritation in contact with eyes and skin.
Corrosivity:	Not applicable
Sensitization:	Not applicable
Neurological Effects:	Not applicable
Genetic Effects:	Not applicable
Reproductive Effects:	Not applicable
Developmental Effects:	Not applicable with normal use of the marker.
Target Organ Effects:	Not applicable

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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.

Section 14: Transport Information:

U.S. Hazardous Materials Regulation (DOT 49CFR): This material may be shipped as a "Consumer Commodity ORM-D" Exemption when packaged and distributed in a form intended or suitable for sale through retail sales agencies. Shipment from US going to Canada may transport as per 49 CFR (TDG Section 9.1).

Canadian Transportation of Dangerous Goods (TDG): This material can be shipped as a "Consumer Commodity" as per part 1.17 of the TDG Regulations. Shipment from Canada to the US may transport as per TDG Regulations (49 CFR Part 171.12a).

ADR/RID: Ship as Consumer Commodity

IMDG: PAINT, 3, UN1263 , PGIII, FP 31°C, LTD QTY, EmS F-E, S-E

Marine Pollutants: Not applicable

ICAO/IATA: Consumer Commodity, 9, ID8000
 May be carried under the provisions for dangerous goods in limited quantities.

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: None
 CERCLA RQ: None

California Prop 65: Not applicable

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.

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Section 15: Regulatory Information, continued

Canada

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the SDS 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: Not applicable

EC Classification for the Substance/Preparation

European Inventories: All component substances are listed in EINECS.

Symbol: This product is not classified as hazardous according to Regulation (EC) No 1272/2008.

Section 16: Other Information

Text of R-phrases in Section 3: R10: Flammable.

Preparation Information:

Revision Date: October 26, 2010

Prepared by: LEHDER Environmental Services Limited (519) 336-4101
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