

SAFETY DATA SHEET



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Section 2: Hazards Identification

2.1 Classification of the substance or mixture according to GHS Classifications (UNECE 3rd Revised Edition):

Not classified as a hazardous chemical.

2.2 Label elements:

No hazard classifications.

2.3 Other hazards:

The paint inside the marker is a flammable liquid. Exposures to liquid and/or vapors from misuse of the product may cause eye irritation and/or drowsiness and dizziness. Exposure to hazardous substances is not expected when handling this product for its intended use.

2.4 Other hazard classifications:

Marker meets the definition of an "article".

USA: This article is not considered a hazardous chemical by the OSHA Hazard Communication Standard 29 CFR 1910.1200 (2012).

Canada: This article is not a controlled product under WHMIS.

European Union (EU): This article is not classified as hazardous according to CLP Regulation (EC) No 1272/2008.

Section 3: Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Wt. %</u>	<u>GHS Classifications</u> according to UNECE 3 rd Revised Edition
1-methoxypropan-2-ol	107-98-2	40 - 70	Flam. Liq. 3; H226 STOT SE 3; H336
Ethanol	64-17-5	7 - 13	Flam. Liq. 2; H225
ethyl acetate	141-78-6	0.1 - 1.1	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336
Isopropanol	67-63-0	0.5 - 2.5	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336

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Section 4: First Aid Measures

4.1 Description of first aid measures:

Inhalation: If symptoms are experienced, remove source of contamination or have victim move to fresh air. Obtain medical advice.

Eye Contact: No effects expected. If liquid paint contacts the eyes, rinse cautiously for several minutes while holding the eyelids open. Obtain medical attention.

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: No health effects expected. If swallowed, do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Obtain medical advice or call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and effects, both acute and delayed:

Exposure to hazardous substances is not expected when handling this product for its intended use.

Liquid paint may cause serious eye irritation if in contact with the eyes.

From misuse of the marker: breathing vapors may cause drowsiness and dizziness.

Section 5: Fire Fighting Measures

5.1 Extinguishing media:

For small fires use dry chemicals, carbon dioxide, appropriate foam, or inert gas (nitrogen).

For large fires use appropriate foam, water fog, or water spray. Water can be used to cool fire-exposed containers.

5.2 Special hazards arising from the substance:

Markers contain a small volume of paint which is a flammable liquid, category 2. Flashpoint 13°C (55°F).

5.3 Advice for firefighters:

If involved in a fire, combustion may produce toxic and irritating fumes and gases including carbon dioxide, carbon monoxide and/or unburned hydrocarbons.

As for any fire, evacuate the area and fight the fire from a safe distance. Firefighters must wear full protective clothing and positive pressure self-contained breathing apparatus.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

If large volumes of paint are released shut off or extinguish all sources of ignition. Do not breathe vapors. Ventilate the area.

6.2 Environmental precautions:

Prevent the spilled liquid from entering sewers or waterways.

6.3 Methods and material for containment and cleaning up:

Stop the spill if it is safe to do so.

Absorb any spilled liquid using dry earth, sand or non-combustible absorbent material and transfer to appropriate covered and labeled waste containers.

6.4 Additional Information:

See Section 8 for information on selection of personal protective equipment.

See Section 13 for information on disposal of spilled product and contaminated absorbents.

Section 7: Handling and Storage

7.1 Precautions for safe handling:

Keep out of reach of children.

Do not use near hot surfaces or flames.

7.2 Conditions for safe storage, including any incompatibilities:

Store below 50°C. Store away from ignition sources, extreme heat and out of direct sunlight. Keep markers closed when not in use.

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Section 8: Exposure Controls/Personal Protection

8.1 Control parameters:

Occupational Exposure Limits: Measurable airborne concentrations of the component substances are not expected when the markers are used for their intended purpose. Consult local authorities for acceptable exposure limits.

Section 8: Exposure Controls/Personal Protection, continued

8.2 Exposure controls:

Engineering Controls: General ventilation is normally adequate.

Personal Protection: Workers must comply with the Personal Protective Equipment requirements of the workplace.

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.

Other Protection: Avoid breathing vapors. Keep out of reach of children.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Appearance:	Solid marker containing liquid, colored paint.
Odor:	Mild odor of solvent.
Odor threshold:	Not available
pH:	Not available
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	120°C (248°F) for 1-methoxypropan-2-ol
Flash point:	31°C (88°F) setaflash for 1-methoxypropan-2-ol
Flammability	Paint contained in marker is a flammable liquid
Auto-ignition temperature:	287°C (594°F) for 1-methoxypropan-2-ol
Upper/lower flammability or explosive limits:	Not available
Explosive properties:	Not available
Oxidizing properties:	Not available
Sensitivity to mechanical impact:	Not available
Sensitivity to static discharge:	Not available
Vapor pressure:	11.8 for 1-methoxypropan-2-ol
Evaporation rate:	<1
Vapor density:	3.12 for 1-methoxypropan-2-ol
Relative density:	1.0 – 1.33 (water=1)
Solubility (is):	Insoluble in water
Partition coefficient (n-octane/water):	Approximately 0.7
Decomposition temperature:	Not available
Viscosity:	Not available
VOC Content:	50 - 60 % (w/w) for liquid paint

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Section 10: Stability and Reactivity

10.1 Reactivity:

Not classified for reactivity hazards.

10.2 Chemical Stability:

Stable at normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of Hazardous Reactions:

None known

10.4 Conditions to Avoid:

Do not use in conditions of heat or near open flames and sparks. Avoid heating above 60°C.

10.5 Incompatible Materials:

Paint is incompatible with strong oxidizing agents, such as chlorine and oxygen.

10.6 Hazardous Decomposition Products:

None known when used for its intended purpose. Combustion may produce irritating and/or toxic gases.

Section 11: Toxicological Information

11.1 Information on toxicological effects:

Acute Health Effects:

Inhalation: This product does not easily form a vapor; inhalation exposure is unlikely to occur, unless the marker is misused. Exposures to high vapor concentrations may cause drowsiness and dizziness.

Ingestion: Not an expected route of exposure with normal use of the product.

Skin: Repeated contact with the skin may cause irritation.

Eye: Not an expected route of exposure with normal use of the product. Direct contact with the liquid paint may cause eye irritation.

Acute Toxicity Data: Acute toxicity data are not available for the mixture.

Chronic Health Effects:

Data are not available.

Sensitization:

Not applicable

Neurological Effects:

Not applicable with normal use of the marker.

Genetic Effects:

Not applicable

Reproductive Effects:

Not applicable

Developmental Effects:

Not applicable with normal use of the marker.

Target Organ Effects:

Not applicable

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).

Medical Conditions Aggravated by Exposure:

Repeated skin contact may aggravate an existing dermatitis.

Interactions With Other Chemicals:

Data are not available.

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Section 12: Ecological Information

12.1 Toxicity:

Germany Water Hazard Classes: 1-methoxypropan-2-ol ID Number 1597, hazard class 1 - low hazard to waters.
Isopropanol ID Number 135, hazard class 1 - low hazard to waters.

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Not available

12.4 Mobility in soil:

Not available

Section 13: Disposal Considerations

13.1 Waste treatment methods:

Do NOT discard into any sewers, on the ground or into any body of water. Store material for disposal as indicated in Section 7 Handling and Storage. Dispose of in accordance with local, state/provincial and federal laws and regulations.

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.

Section 14: Transport Information:

Transport Regulations:

U.S. Hazardous Materials Regulation (DOT 49CFR): This product conforms to 49 CFR 173.4 for domestic highway or rail transport only. Conforms to 49 CFR 173.4a Excepted quantity of Class 3 Flammable liquid.

Canadian Transportation of Dangerous Goods (TDG): Dangerous goods in excepted quantity.

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

ICAO/IATA Classification: Dangerous goods in excepted quantity.

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

USA

OSHA: Article, Non-Hazardous according to OSHA Hazard Communication Standard 29 CFR 1910.120 (2012).

SARA Title III

Sec. 302/304: None
Sec. 311/312: Flammable
Sec. 313: Isopropanol
CERCLA RQ: None

California Prop 65: Not applicable

State Right-to-Know: Ethanol, Isopropanol, Ethyl acetate and 1-methoxypropan-2-ol can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, and Massachusetts.

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: Manufactured article, Not controlled

Europe

This article is not classified as hazardous according to CLP Regulation (EC) No 1272/2008.

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Section 16: Other Information

Text of H-phrases in Section 3:

H225: Highly flammable liquid and vapour.
H226: Flammable liquid and vapour.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.

Preparation Information:

Revision date: September 4, 2013

References and sources for data:

CCOHS – ChemInfo
European Commission Joint Research Centre IHCP, European Chemical Substances Information System (ESIS).

Legend to abbreviations:

ACGIH – American Conference of Governmental Industrial Hygienists
GHS- Globally Harmonised System for Classification and Labeling
IARC – International Agency for Research on Cancer
LD50- Median lethal dose; the dose causing 50 % lethality
LEV- Local exhaust ventilation
OSHA – United States, Occupational Safety and Health Administration
STEL – Short term exposure limit
TWA – Time weighted average
TLV - Threshold Limit Value
NTP – National Toxicology Program
WHMIS – Canada, Workplace Hazardous Materials Information System

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