


SAFETY DATA SHEET

Section 1: Product and Company Identification

Product Name: DURA-INK® 20 Retractable Marker
Product Code: 96575 (Black); 96576 (Red)
Product Use: Marker for cardboard, wood, metal, paper, ceramics, glass, leather and rubber.
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 Dangerous	Not Controlled	Excepted Quantity [Class 3 Flammable liquid]

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

Appearance, Color and Odor: Marker containing less than 10 mL of black or red ink. Alcohol 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 dangerous 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 ink may cause skin dryness when in contact with the skin.

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. 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 exposure to the liquid in the marker.

Interactions With Other Chemicals: Not available

Potential Environmental Effects: Not available

SAFETY DATA SHEET

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>
Ethanol	64-17-5	30 - 60	200-578-6	F	R11
1-methoxypropan-2-ol	107-98-2	30 - 60	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:** Ink contained within the markers is flammable. Flashpoint reported as 20°C.
- 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.

SAFETY DATA SHEET

Section 7: Handling and Storage

Handling: Do not use near sources of extreme heat and keep away from sources of ignition. Keep out of reach of children. Keep container tightly closed.

Storage: Store out of direct sunlight and away from heat, flames and ignition sources. Keep markers closed when not in use. Store between 4 – 49°C (40-120°F).

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:	20°C (68°F)
Appearance, Color and Odor:	Cylindrical marker; black or red colors; odor of alcohol.	Autoignition Temperature:	Not available
Odor Threshold:	Not available	Flammability Limits in Air:	Not available
pH:	Not applicable	Vapor Pressure:	14 mmHg (of the liquid ink)
Relative density:	0.8 – 0.95 (for liquid ink)	Vapor Density:	1.8 (air=1)
Partition coefficient:	Not available	Evaporation Rate:	Not applicable
Solubility:	Not applicable	Boiling Point/Range:	98°C (208°F)
Viscosity:	4.0 – 7.0 cPs @25°C (for liquid ink)	Freezing Point:	-112°C (-169.6°)
Decomposition Temperature:	Not available	VOC Content:	Not available

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: Not available

Hazardous Decomposition Products: Not applicable

Possibility of Hazardous Reactions: Not applicable

SAFETY DATA SHEET

Section 11: Toxicological Information

<u>Acute Toxicity Data</u>	Acute toxicity data is not available for the liquid ink preparations inside the markers. Exposure to toxic and harmful substances by the user is not expected when the marker is used for its intended purpose.
<u>Other Toxicity Data</u>	
Carcinogenicity:	Normal occupational and domestic use of this product will not result in exposure to substances that are 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.
Corrosivity:	Not applicable
Sensitization:	Not applicable
Neurological Effects:	Not applicable with normal use of the marker.
Genetic Effects:	Not applicable with normal use of the marker.
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 with normal use of the marker.

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 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.
ADR/RID:	Dangerous goods in excepted quantity.
IMDG:	Dangerous goods in excepted quantity.
ICAO/IATA:	Dangerous goods in excepted quantity.

SAFETY DATA SHEET

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: Not applicable

CERCLA RQ: Not applicable

California Prop 65: Not applicable

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. Product meets the definition of a “manufactured article” and is not subject (for workplace exposures) 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: There are no NPRI reportable substances in the ink preparation.

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 its amendments.

Section 16: Other Information

Full Text of R-phrases appearing in Section 2: R10: Flammable.
R11: Highly flammable.

Preparation Information:

Revision Date: September 14, 2011

Supplier 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.

Prepared by: LEHDER Environmental Services Limited (519) 336-4101
www.lehder.com
While LEHDER Environmental Services Limited believes that the data set forth herein is accurate, as of the date hereof, LEHDER makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation and verification.