DURA-INK® 5, 15, 25, 55, 60, 200 Black Markers

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Trade name: DURA-INK® 5, 15, 25, 55, 60, 200 Black Markers

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: Marking.

1.3. Details of the supplier of the safety data sheet
LA-CO Industries, Inc.
1201 Pratt Boulevard
Elk Grove Village, IL. 60007-5746
Phone: (847) 956-7600
Fax: (847) 956-9885
E-mail: customer_service@laco.com

1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification in accordance with the Globally Harmonized Standard
Flam. Liq. 3 H226
Eye Dam. 1 H318
STOT SE 3 H335
STOT SE 3 H336
Full text of H-phrases: see section 16

2.2. Label elements
GHS-US labelling
Hazard pictograms (GHS-US):

<table>
<thead>
<tr>
<th>GHS02</th>
<th>GHS05</th>
<th>GHS07</th>
</tr>
</thead>
</table>

Signal word (GHS-US): Danger
Hazard statements (GHS-US):
H226 - Flammable liquid and vapour
H318 - Causes serious eye damage
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness

Precautionary statements (GHS-US):
P210 - Keep away from heat, sparks, open flames. Do not smoke
P233 - Keep container tightly closed
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing mist, vapours
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear eye protection, protective gloves
P303+P361+P338 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Remove person to fresh air and keep comfortable for breathing. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. Provide2 cool and quiet environment
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Continue rinsing
P310 - Immediately call a doctor
P370+P378 - In case of fire: Use carbon dioxide (CO2), dry extinguishing powder. Water spray to extinguish
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403+P235 - Store in a well-ventilated place. Keep cool
DURA-INK® 5, 15, 25, 55, 60, 200 Black Markers
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
according to Canadian Hazardous Products Regulations (HPR)

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>% (w/w)</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H336</td>
</tr>
<tr>
<td>propan-1-ol</td>
<td>(CAS No) 71-23-8</td>
<td>25 - 50</td>
<td>Flam. Liq. 2, H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H335</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. Call a POISON CENTER or doctor/physician if you feel unwell.

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

Symptoms/injuries after inhalation : May cause drowsiness or dizziness. May cause respiratory irritation.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Like any product not designed to be ingested, this product may cause stomach distress if ingested in large quantities.

4.3. Indication of any immediate medical attention and special treatment needed

All treatments should be based on observed signs and symptoms of distress in the patient.

SECTION 5: Firefighting measures

5.1. Extinguishing media


Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

Reactivity : No dangerous reactions known.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. In case of fire: stop leak if safe to do so. Do not allow run-off from fire fighting to enter drains or water courses.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.
SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Avoid all eye and skin contact and do not breathe vapour and mist.

6.1.1. For non-emergency personnel

Protective equipment: Chemical goggles or safety glasses. Clothing impervious to chemical penetration. Wear suitable gloves resistant to chemical penetration. In case of inadequate ventilation wear respiratory protection.

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Wear suitable protective clothing and gloves. Chemical goggles or safety glasses. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment.

Emergency procedures: Ventilate area. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment: Absorb and/or contain spill with inert material, then place in suitable container.

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Take up in non-combustible absorbent material and shove into container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed: Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling: No open flames. No smoking. Use only non-sparking tools. Avoid breathing mist/vapours/spray. Use only outdoors or in a well-ventilated area. Take precautionary measures against static discharge.

Hygiene measures: Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.

Storage conditions: Keep in fireproof place. Keep container tightly closed. Store in a dry, cool and well-ventilated place.

Incompatible products: Strong oxidizers.

Incompatible materials: Heat sources. Sources of ignition.

Prohibitions on mixed storage: Keep away from incompatible materials.

7.3. Specific end use(s)

Marking.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>-Methoxy-2-propanol (107-98-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH ACGIH TWA (mg/m³)</td>
</tr>
<tr>
<td>ACGIH ACGIH TWA (ppm)</td>
</tr>
<tr>
<td>ACGIH ACGIH STEL (mg/m³)</td>
</tr>
<tr>
<td>ACGIH ACGIH STEL (ppm)</td>
</tr>
<tr>
<td>ACGIH Remark (ACGIH)</td>
</tr>
<tr>
<td>OSHA Not applicable</td>
</tr>
<tr>
<td>Canada (Quebec) VECD (mg/m³)</td>
</tr>
<tr>
<td>Canada (Quebec) VECD (ppm)</td>
</tr>
</tbody>
</table>
DURA-INK® 5, 15, 25, 55, 60, 200 Black Markers
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
according to Canadian Hazardous Products Regulations (HPR)

8.2. Exposure controls

Appropriate engineering controls
: Avoid creating mist or spray. Avoid splashing. Eyewash stations. Provide local exhaust ventilation of closed transfer systems to minimize exposures.

Personal protective equipment
: Avoid all unnecessary exposure.

Hand protection
: Wear suitable gloves resistant to chemical penetration. Impermeable protective nitrile gloves.

Eye protection
: In case of splashing or aerosol production: protective goggles. Chemical goggles or safety glasses.

Skin and body protection
: Wear suitable protective clothing. Impervious clothing.

Respiratory protection
: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Use an approved respirator equipped with oil/mist cartridges.

Other information
: Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state
: Liquid

Appearance
: Solid marker containing liquid colored paint.

Colour
: Black.

Odour threshold
: No data available

pH
: 5.7 @ 20 °C

Relative evaporation rate (butyl acetate=1)
: No data available

Melting point
: No data available

Freezing point
: No data available

Boiling point
: 96 °C

Flash point
: 23 °C

Auto-ignition temperature
: 287 °C

Decomposition temperature
: No data available

Flammability (solid, gas)
: No data available

Vapour pressure
: 14 mm Hg @ 20 °C

Relative vapour density at 20 °C
: No data available

Relative density
: No data available

Density
: 0.9 g/cm³ @ 20 °C

Solubility
: Miscible with water.

Log Pow
: No data available

Log Kow
: No data available

Viscosity, kinematic
: No data available

Viscosity, dynamic
: 5 mPa.s @ 20 °C

Explosive properties
: No data available

Oxidising properties
: No data available

Explosive limits
: 1.7 vol %

13.5 g/m³
DURA-INK® 5, 15, 25, 55, 60, 200 Black Markers
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
according to Canadian Hazardous Products Regulations (HPR)

9.2. Other information
VOC content : 82 %

SECTION 10: Stability and reactivity

10.1. Reactivity
No dangerous reactions known.

10.2. Chemical stability
Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture. Flammable liquid and vapour.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid

10.5. Incompatible materials
Strong oxidizers.

10.6. Hazardous decomposition products
May release flammable gases. Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

<table>
<thead>
<tr>
<th>1-Methoxy-2-propanol (107-98-2)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>4016 mg/kg bodyweight</td>
</tr>
<tr>
<td>LD50 dermal rat</td>
<td>&gt; 2000 mg/kg bodyweight</td>
</tr>
<tr>
<td>LC50 inhalation rat (ppm)</td>
<td>&gt; 7000 ppm 6 hr</td>
</tr>
<tr>
<td>ATE CLP (oral)</td>
<td>4016.000 mg/kg bodyweight</td>
</tr>
<tr>
<td>propan-1-ol (71-23-8)</td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>5400 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>4032 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>&gt; 33.8 mg/l/4h</td>
</tr>
<tr>
<td>ATE CLP (oral)</td>
<td>5400.000 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE CLP (dermal)</td>
<td>4032.000 mg/kg bodyweight</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Causes serious eye damage.
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : May cause respiratory irritation. May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure) : Not classified
Aspiration hazard : Not classified
Potential adverse human health effects and symptoms
Symptoms/injuries after inhalation : May cause drowsiness or dizziness. May cause respiratory irritation.
Symptoms/injuries after eye contact : Causes serious eye damage.
Symptoms/injuries after ingestion : Like any product not designed to be ingested, this product may cause stomach distress if ingested in large quantities.
Likely routes of exposure : Inhalation; Skin and eye contact

SECTION 12: Ecological information

12.1. Toxicity

<table>
<thead>
<tr>
<th>1-Methoxy-2-propanol (107-98-2)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>20800 mg/l</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>23300 mg/l</td>
</tr>
<tr>
<td>ErC50 (algae)</td>
<td>&gt; 1000 mg/l</td>
</tr>
</tbody>
</table>
DURA-INK® 5, 15, 25, 55, 60, 200 Black Markers
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
according to Canadian Hazardous Products Regulations (HPR)

12. Persistence and degradability

<table>
<thead>
<tr>
<th>DURA-INK® 5, 15, 25, 55, 60, 200 Black Markers</th>
<th>Persistence and degradability</th>
<th>May cause long-term adverse effects in the environment.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biodegradation</td>
<td>96 % 28 d</td>
<td></td>
</tr>
<tr>
<td>propan-1-ol (71-23-8)</td>
<td>Persistence and degradability</td>
<td>Readily biodegradable.</td>
</tr>
<tr>
<td>Biodegradation</td>
<td>75 % 20 d</td>
<td></td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>1-Methoxy-2-propanol (107-98-2)</th>
<th>Bioaccumulative potential</th>
<th>Not expected to bioaccumulate.</th>
</tr>
</thead>
<tbody>
<tr>
<td>propan-1-ol (71-23-8)</td>
<td>BCF fish 1</td>
<td>0.88</td>
</tr>
<tr>
<td></td>
<td>Log Pow</td>
<td>0.2</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

| Waste disposal recommendations | Dispose in a safe manner in accordance with local/national regulations. |
| Additional information          | Handle empty containers with care because residual vapours are flammable. |
| Ecology - waste materials       | Avoid release to the environment.                                      |

SECTION 14: Transport information

In accordance with DOT and TDG
Not considered a dangerous good for transport regulations

Proper Shipping Name (ADR) : Not applicable

Transport by sea
No additional information available

Air transport
No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

<table>
<thead>
<tr>
<th>1-Methoxy-2-propanol (107-98-2)</th>
<th>Listed on the United States TSCA (Toxic Substances Control Act) inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td>propan-1-ol (71-23-8)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
</tbody>
</table>

15.2. International regulations

CANADA

<table>
<thead>
<tr>
<th>1-Methoxy-2-propanol (107-98-2)</th>
<th>Listed on the Canadian DSL (Domestic Substances List) inventory.</th>
</tr>
</thead>
<tbody>
<tr>
<td>propan-1-ol (71-23-8)</td>
<td>Listed on the Canadian DSL (Domestic Substances List) inventory.</td>
</tr>
</tbody>
</table>

EU-Regulations

<table>
<thead>
<tr>
<th>1-Methoxy-2-propanol (107-98-2)</th>
<th>Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)</th>
</tr>
</thead>
</table>
DURA-INK® 5, 15, 25, 55, 60, 200 Black Markers
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
according to Canadian Hazardous Products Regulations (HPR)

National regulations

DURA-INK® 5, 15, 25, 55, 60, 200 Black Markers
All ingredients are listed in the Toxic Substances Control Act (TSCA).
All ingredients are listed on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).
All components are listed on the EEC inventory European Inventory of Existing Commercial Chemical Substances (EINECS).

15.3. US State regulations

1-Methoxy-2-propanol (107-98-2)
U.S. - Minnesota - Hazardous Substance List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New York - Right to Know List of Hazardous Chemicals

propan-1-ol (71-23-8)
U.S. - Minnesota - Hazardous Substance List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New York - Right to Know List of Hazardous Chemicals

SECTION 16: Other information

Indication of changes: Original Document.

Abbreviations and acronyms: ACGIH (American Conference of Government Industrial Hygienists).
ATE: Acute Toxicity Estimate.
CAS (Chemical Abstracts Service) number.
CLP: Classification, Labelling, Packaging.
EC50: Environmental Concentration associated with a response by 50% of the test population.
GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
LD50: Lethal Dose for 50% of the test population.
OSHA: Occupational Safety & Health Administration.
STEL: Short Term Exposure Limits.
TSCA: Toxic Substances Control Act.
TWA: Time Weight Average.

Other information: None.

NFPA health hazard: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
NFPA reactivity: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.

Full text of H-phrases:
Eye Dam. 1 Serious eye damage/eye irritation, Category 1
Flam. Liq. 2 Flammable liquids, Category 2
### Flam. Liq. 3
Flammable liquids, Category 3

### STOT SE 3
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

### STOT SE 3
Specific target organ toxicity — Single exposure, Category 3, Narcosis

### H225
Highly flammable liquid and vapour

### H226
Flammable liquid and vapour

### H318
Causes serious eye damage

### H335
May cause respiratory irritation

### H336
May cause drowsiness or dizziness

---

**SDS Prepared by:** The Redstone Group, LLC  
6077 Frantz Rd.  
Suite 206  
Dublin, OH USA 43016  
T 614-923-7472  
www.redstonegrp.com

**LACO NA GHS SDS**

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.