

**Safety Data Sheet**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada Hazardous Products Regulations (HPR) / Règlement sur les produits dangereux (RPD)  
Issue date: 12/21/2022 Version: 1.0

**SECTION 1: Identification****1.1. Identification**

Product form : Mixture  
Product name : Dura-Ink® + Water Removable Blue, Green

**1.2. Recommended use and restrictions on use**

Use of the substance/mixture : Marking  
Restrictions on use : No additional information available

**1.3. Supplier**

LA-CO Industries  
1201 Pratt Blvd.  
Elk Grove Village, IL, 60007-5746  
US  
T 847-956-7600 - F 847-956-9885  
[customer\\_service@laco.com](mailto:customer_service@laco.com)

**1.4. Emergency telephone number**

Emergency number : 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887;  
全国应急中心 0532 8388 9090

**SECTION 2: Hazard(s) identification****2.1. Classification of the substance or mixture****GHS US classification**

Flammable liquids Category 2 H225 Highly flammable liquid and vapor  
Specific target organ toxicity – Single exposure, Category 3, Narcosis H336 May cause drowsiness or dizziness  
Full text of H statements : see section 16

**2.2. GHS Label elements, including precautionary statements****GHS US labeling**

Hazard pictograms (GHS) :



Signal word (GHS) :

Danger

Hazard statements (GHS) :

H225 - Highly flammable liquid and vapor  
H336 - May cause drowsiness or dizziness

Precautionary statements (GHS) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/bond container and receiving equipment  
P241 - Use explosion-proof electrical, lighting, ventilating equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P261 - Avoid breathing mist, spray, vapors.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear eye protection, protective gloves.  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.  
P312 - Call a POISON CENTER, a doctor if you feel unwell.  
P370+P378 - In case of fire: Use media other than water to extinguish.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P235 - Keep cool.  
P405 - Store locked up.

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P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS)

9% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

9% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

9% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	% (w/w)	GHS US classification
1-methoxy-2-propanol	CAS-No.: 107-98-2	20 - 30	Flam. Liq. 3, H226 STOT SE 3, H336

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : 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.
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	: Take off contaminated clothing and wash it before reuse. Wash skin thoroughly with mild soap and water.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause drowsiness or dizziness.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Carbon dioxide. Dry chemical. alcohol resistant foam. Water spray.
Unsuitable extinguishing media	: None known.

### 5.2. Specific hazards arising from the chemical

Fire hazard	: Highly flammable liquid and vapor. Flammable vapors may accumulate in the container. Heavier than air, vapors may travel long distances along ground, ignite and flash back to source.
Explosion hazard	: May form flammable/explosive vapor-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO <sub>2</sub> ).

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
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

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General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Do not breathe aerosol. Do not breathe vapor. Do not get in eyes, on skin, or on clothing.

### 6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8.2.  
Emergency procedures : Evacuate unnecessary personnel.

### 6.1.2. For emergency responders

Protective equipment : Refer to section 8.2.  
Emergency procedures : Stop leak if safe to do so. Ventilate area.

## 6.2. Environmental precautions

Avoid release to the environment.

## 6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.  
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage.

## 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.  
Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Do not breathe aerosol. Use only outdoors or in a well-ventilated area. Do not breathe vapors. Do not get in eyes, on skin, or on clothing.  
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, lighting equipment.  
Storage conditions : Keep in fireproof place. Keep container tightly closed.  
Incompatible products : Strong oxidizers. Strong acids.  
Heat-ignition : Keep away from heat, sparks and flame.  
Storage area : Store in dry, cool, well-ventilated area.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Dura-Ink® + Water Removable Blue, Green

No additional information available

#### 1-methoxy-2-propanol (107-98-2)

#### USA - ACGIH - Occupational Exposure Limits

Local name	1-Methoxy-2-propanol
ACGIH TWA (mg/m³)	369 mg/m³
ACGIH OEL TWA [ppm]	50 ppm
ACGIH STEL (mg/m³)	553 mg/m³
ACGIH OEL STEL [ppm]	100 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)

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### 1-methoxy-2-propanol (107-98-2)

Regulatory reference ACGIH 2022

### USA - NIOSH - Occupational Exposure Limits

NIOSH REL (TWA) 360 mg/m<sup>3</sup>

NIOSH REL TWA [ppm] 100 ppm

NIOSH REL (STEL) 540 mg/m<sup>3</sup>

NIOSH REL STEL [ppm] 150 ppm

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Avoid splashing. Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Wear suitable gloves. Nitrile rubber gloves.

#### Eye protection:

Chemical goggles or safety glasses.

#### Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Approved respirator.

#### Personal protective equipment symbol(s):



#### 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.  
Color : Various  
Odor : Alcohols  
Odor threshold : No data available  
pH : No data available  
Melting point : No data available  
Freezing point : -70 °C  
Boiling point : 70 – 120 °C  
Flash point : > 13 °C  
Relative evaporation rate (butyl acetate=1) : No data available  
Flammability (solid, gas) : Highly flammable liquid and vapor.  
Vapor pressure : < 40 mm Hg  
Relative vapor density at 20°C : No data available  
Relative density : 0.8 (≥ 1)  
Solubility : insoluble in water.  
Log Pow : No data available  
Auto-ignition temperature : > 360 °C

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Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: Lower explosion limit: 2 vol % Upper explosive limit (UEL): 13 vol %
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

VOC content	: 95 %
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known.

### 10.2. Chemical stability

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Open flame. Direct sunlight.

### 10.5. Incompatible materials

Oxidizer.

### 10.6. Hazardous decomposition products

May release flammable gases. Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

#### Dura-Ink® + Water Removable Blue, Green

Unknown acute toxicity (GHS)	9% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 9% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 9% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))
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#### 1-methoxy-2-propanol (107-98-2)

LD50 Oral rat	4016 mg/kg Source: ECHA
LD50 Dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LD50 Dermal rabbit	> 2000 mg/kg Source: ECHA
LC50 Inhalation rat [ppm]	> 7000 ppm 6 hr

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause drowsiness or dizziness.

#### 1-methoxy-2-propanol (107-98-2)

STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified

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### 1-methoxy-2-propanol (107-98-2)

LOAEL (oral,rat,90 days)	2757 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
NOAEL (oral,rat,90 days)	919 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
NOAEL (dermal,rat/rabbit,90 days)	> 1000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)

Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Likely routes of exposure	: Inhalation. Skin and eye contact.
Symptoms/effects after inhalation	: May cause drowsiness or dizziness.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### 1-methoxy-2-propanol (107-98-2)

LC50 fish 1	≥ 1000 mg/l Source: EHCA
EC50 crustacea	21100 – 25900 mg/l Source: ECHA
EC50 other aquatic organisms 1	2954 mg/l Test organisms (species): other aquatic crustacea:
ErC50 algae	> 1000 mg/l

### 12.2. Persistence and degradability

#### Dura-Ink® + Water Removable Blue, Green

Persistence and degradability	Not established.
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#### 1-methoxy-2-propanol (107-98-2)

Persistence and degradability	Readily biodegradable.
Biodegradation	96 % 28 days

### 12.3. Bioaccumulative potential

#### Dura-Ink® + Water Removable Blue, Green

Bioaccumulative potential	Not established.
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#### 1-methoxy-2-propanol (107-98-2)

Log Pow	-0.49 Source: HSDB
Bioaccumulative potential	Not expected to bioaccumulate.

### 12.4. Mobility in soil

#### Dura-Ink® + Water Removable Blue, Green

Ecology - soil	Not established.
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### 12.5. Other adverse effects

Other information	: Avoid release to the environment.
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## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Handle empty containers with care because residual vapors are flammable.

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### SECTION 14: Transport information

#### 14.1. UN number

DOT NA No : Not regulated  
UN-No. (TDG) : Not regulated  
UN-No. (IMDG) : Not regulated  
UN-No. (IATA) : Not regulated

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not regulated  
Proper Shipping Name (TDG) : Not regulated  
Proper Shipping Name (IMDG) : Not regulated  
Proper Shipping Name (IATA) : Not regulated

#### 14.3. Transport hazard class(es)

##### DOT

Transport hazard class(es) (DOT) : Not regulated

##### TDG

Transport hazard class(es) (TDG) : Not regulated

##### IMDG

Transport hazard class(es) (IMDG) : Not regulated

##### IATA

Transport hazard class(es) (IATA) : Not regulated

#### 14.4. Packing group

Packing group (DOT) : Not regulated  
Packing group (TDG) : Not regulated  
Packing group (IMDG) : Not regulated  
Packing group (IATA) : Not regulated

#### 14.5. Environmental hazards

Other information : Per ICAO/IATA Regulations 3.4.1.1.2; IMDG Regulations 2.4.2.2.2 Product testing according to the UN regulations for classification of readily combustible solids section 33.2.1.4.3.1 – Preliminary Screening Test.  
Inner filter with absorbed ink is removed from marker body. End of filter is ignited using 2000°C torch. After 2 minutes rate of burning is less than 2 mm per second.  
Product is not readily combustible solid of Division 4.1.

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### 15.2. International regulations

##### Dura-Ink® + Water Removable Blue, Green

All ingredients are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).

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### 1-methoxy-2-propanol (107-98-2)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

## SECTION 16: Other information

Data sources	: ACGIH (American Conference of Government Industrial Hygienists). European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <a href="http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database">http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database</a> . Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. OSHA 29CFR 1910.1200 Hazard Communication Standard. TSCA Chemical Substance Inventory. Accessed at <a href="http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html">http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html</a> .
Other information	: None.

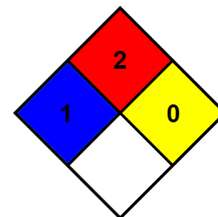
### Full text of H-phrases

H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H336	May cause drowsiness or dizziness

### Abbreviations and acronyms

	ACGIH (American Conference of Government Industrial Hygienists)
	CAS (Chemical Abstracts Service) number
	CLP: Classification, Labelling, Packaging.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	OSHA: Occupational Safety & Health Administration
	PBT: Persistent, Bioaccumulative, Toxic
	TSCA: Toxic Substances Control Act

NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.
NFPA fire hazard	: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.



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.