547-014

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

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations according to Canadian Hazardous Products Regulations (HPR)

Date of issue: 04/02/2015

LA-CO Industries, Inc.

Version: 1.0

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

Product identifier 96023 1.1.

Trade name

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

Synonyms

DURA-INK® 5 Black / DURA-INK® 15 Black / DURA-INK® 25 Black / DURA-INK® 55 Black /

DURA-INK® 60 Black / DURA-INK® 200 Black

Relevant identified uses of the substance or mixture and uses advised against 1.2.

Use of the substance/mixture

: Marking.

Details of the supplier of the safety data sheet 1.3.

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

Emergency telephone number 1.4.

Emergency number

: 24-hour emergency: CHEMTREC- U.S.: 1-800-424-9300 International: +1-703-527-3887

SECTION 2: Hazards Identification

Classification of the substance or mixture 2.1.

Classification in accordance with the Globally Harmonized Standard

Flam. Liq. 3 H226 Eye Dam. 1 H318 STOT SE 3 H335 STOTSE 3 H336

Full text of H-phrases: see section 16

2.2 Label elements

GHS-US labelling

Hazard pictograms (GHS-US)





GHS05

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. - No smoking

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+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

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. 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

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P501 - Dispose of contents/container to an authorised waste collection point

Bulk

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, lighting, ventilating equipment

P405 - Store locked up

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	% (w/w)	GHS-US classification
1-Methoxy-2-propanol	(CAS No) 107-98-2	25 - 50	Flam. Liq. 3, H226 STOT SE 3, H336
propan-1-ol	(CAS No) 71-23-8	25 - 50	Flam. Liq. 2, H225 Eye Dam. 1, H318 STOT SE 3, H335

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1.	Description of first aid measures
4.1.	Describtion of first ald fileasures

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
First-aid measures after eye 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.
- : 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

Suitable extinguishing media

: Carbon dioxide. Dry powder. Water spray.

Unsuitable extinguishing media

: None known.

EN (English)

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.

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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

Precautions for safe handling

: Handle empty containers with care because residual vapours are flammable.

: 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

-Methoxy-2-propanol (1	07-98-2)	
ACGIH	ACGIH TWA (mg/m³)	369 mg/m³
ACGIH	ACGIH TWA (ppm)	50 ppm
ACGIH	ACGIH STEL (mg/m³)	553 mg/m³
ACGIH	ACGIH STEL (ppm)	100 ppm
ACGIH	Remark (ACGIH)	Eye irr; CNS impair; A4
OSHA	Not applicable	
Canada (Quebec)	VECD (mg/m³)	553 mg/m³
Canada (Quebec)	VECD (ppm)	150 ppm

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-Methoxy-2-propanol (1	07-98-2)	
Canada (Quebec)	VEMP (mg/m³)	369 mg/m³
Canada (Quebec)	VEMP (ppm)	100 ppm
propan-1-ol (71-23-8)	THE RESERVE OF THE PARTY OF THE PARTY.	
ACGIH	ACGIH TWA (ppm)	100 ppm
ACGIH	Remark (ACGIH)	Eye & URT irr
OSHA	OSHA PEL (TWA) (mg/m³)	500 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
Canada (Quebec)	VECD (mg/m³)	615 mg/m³
Canada (Quebec)	VECD (ppm)	250 ppm
Canada (Quebec)	VEMP (mg/m³)	492 mg/m³
Canada (Quebec)	VEMP (ppm)	200 ppm
Canada (Quebec)	Notations and remarks	(Peau)

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

: 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 : No data available
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

: No data available Decomposition temperature : No data available Flammability (solid, gas) : 14 mm Hg @ 20 °C Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : 0.9 g/cm3 @ 20 °c Density : Miscible with water. Solubility : No data available Log Pow : No data available Log Kow : No data available Viscosity, kinematic : 5 mPa.s @ 20 °C Viscosity, dynamic : No data available Explosive properties : No data available Oxidising properties 1.7 vol % Explosive limits 13.5 g/m³

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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

Avoid excessive heat or cold. Direct sunlight. Heat. Keep away from sources of ignition. Open flame. Overheating. Sparks.

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

1-Methoxy-2-propanol (107-98-2)	
LD50 oral rat	4016 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight
LC50 inhalation rat (ppm)	> 7000 ppm 6 hr
ATE CLP (oral)	4016,000 mg/kg bodyweight
propan-1-ol (71-23-8)	
LD50 oral rat	5400 mg/kg
LD50 dermal rabbit	4032 mg/kg
LC50 inhalation rat (mg/l)	> 33.8 mg/l/4h
ATE CLP (oral)	5400.000 mg/kg bodyweight
ATE CLP (dermal)	4032,000 mg/kg bodyweight

Skin corrosion/irritation

: Not classified

Serious eye damage/irritation

: Causes serious eye damage.

Respiratory or skin sensitisation

: Not classified : Not classified

Germ cell mutagenicity

: Not classified

Carcinogenicity

. Not classified

Reproductive toxicity

Not classifiedMay cause respiratory irritation. May cause drowsiness or dizziness.

Specific target organ toxicity (single

: Not classified

exposure)

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard

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

1-Methoxy-2-propanol (107-98-2		
LC50 fish 1	20800 mg/l	
EC50 Daphnia 1	23300 mg/l	
ErC50 (algae)	> 1000 mg/l	

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propan-1-ol (71-23-8)			
	LC50 fish 1	4555 mg/l 96 h	
	EC50 Daphnia 1	1000 mg/l 48 h	

12.2. Persistence and degradability

DURA-INK® 5, 15, 25, 55, 60, 200 Blace	k Markers
Persistence and degradability	May cause long-term adverse effects in the environment.
1-Methoxy-2-propanol (107-98-2)	
Persistence and degradability	Readily biodegradable.
Biodegradation	96 % 28 d
propan-1-ol (71-23-8)	
Persistence and degradability	Readily biodegradable.
Biodegradation	75 % 20 d

12.3. **Bioaccumulative potential**

1-Methoxy-2-propanol (107-98-2)	
Bioaccumulative potential	Not expected to bioaccumulate.
propan-1-ol (71-23-8)	
BCF fish 1	0.88
Log Pow	0.2

Mobility in soil 12.4.

No additional information available

Other adverse effects

No additional information available

SECTION 13: Disposal considerations

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

SECTION 14: Transport information

In accordance with DOT and TDG

Not considered a dangerous good for transport regulations

Proper Shipping Name (ADR)

: Not applicable

: Avoid release to the environment.

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory Information

15.1. US Federal regulations

Listed on the United States TSCA	Toxic Substances Control Act) inventory
1-Methoxy-2-propanol (107-98-2)	

propan-1-ol (71-23-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

1-Methoxy-2-propanol (107-98-2)

Listed on the Canadian DSL (Domestic Substances List) inventory.

propan-1-ol (71-23-8)

Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

thoxy-2		

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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propan-1-ol (71-23-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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 Canadian 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.

Data sources

: ACGIH 2000.

ESIS (European chemincal Substances Information System; accessed at:

http://esis.jrc.ec.europa.eu/index.php?PGM=cla.

OSHA 29CFR 1910.1200 Hazard Communication Standard.

European Chemicals Agency (ECHA) Registered Substances list. Accessed at

http://echa.europa.eu/.

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.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

TSCA Chemical Substance Inventory. Accessed at

http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html.

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

NFPA reactivity

: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.

: 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:

- 1	Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
	Flam. Liq. 2	Flammable liquids, Category 2	Į

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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

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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

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