LA-CO Industries, Inc.

Safety Data Sheet according to Regulation (EU) 2015/830

Date of issue: 23/12/2015 Revision date:

Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
<u>3ECT</u> 1.1.	Product identifier	substance/mixture and or the company/undertaking
Product	form	: Mixture
Trade n	ame	: DURA-INK® 15, 25, 55, 60, 200 Green
1.2.	Relevant identified uses of the	substance or mixture and uses advised against
1.2.1.	Relevant identified uses	
Use of t	he substance/mixture	: Marking
1.2.2.	Uses advised against	
No add	tional information available	
1.3.	Details of the supplier of the sa	afety data sheet
LA-CO Industries Europe S.A.S. Parc Industriel de la Plaine de l'Ain - Allée des Combes. 01150.BLYES.France. Phone: +33 (0)4 74 46 23 23 Fax: +33 (0)4 74 46 23 29 E-mail: info@eu.laco.com Web: http://www.markal.com		
1.4.	Emergency telephone number	
Emerge	ncy number	: 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2 H225 Skin Irrit. 2 H315 Eye Dam. 1 H318 STOT SE 3 H335 STOT SE 3 H336

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

:

J.

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

	GHS02 GHS	95 GHS07	
Signal word (CLP)	: Danger		
Hazardous ingredients	: 1-Butanol; propan-1-ol		
Hazard statements (CLP)	: H225 - Highly flammable H315 - Causes skin irritat H318 - Causes serious e H335 - May cause respira H336 - May cause drows	ion ye damage atory irritation	
Precautionary statements (CLP)	smoking P233 - Keep container tig P240 - Ground/bond cont P241 - Use explosion-pro P261 - Avoid breathing va P264 - Wash hands thoro	ainer and receiving equipment of electrical, lighting, ventilating equipment apours, mist ughly after handling or in a well-ventilated area	tion sources. No
25/03/2016	EN (English)	SDS Ref.: LACO1512011	1/8

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2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethanol	(CAS No) 64-17-5 (EC no) 200-578-6 (EC index no) 603-002-00-5	50 - 65	Flam. Liq. 2, H225
1-Butanol	(CAS No) 71-36-3 (EC no) 200-751-6 (EC index no) 603-004-00-6	10 - 20	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336
1-Methoxy-2-propanol	(CAS No) 107-98-2 (EC no) 203-539-1 (EC index no) 603-064-00-3	5 - 15	Flam. Liq. 3, H226 STOT SE 3, H336
Isopropanol	(CAS No) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0	0 - 5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
propan-1-ol	(CAS No) 71-23-8 (EC no) 200-746-9 (EC index no) 603-003-00-0	0 - 5	Flam. Liq. 2, H225 Eye Dam. 1, H318 STOT SE 3, H336
4,4'-carbonimidoylbis[N,N-diethylaniline] monohydrochloride; Basic Yellow 37	(CAS No) 6358-36-7 (EC no) 228-770-5	0 - 1.5	Eye Dam. 1, H318 Aquatic Chronic 2, H411

Full text of 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	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.	
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	: 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 respiratory irritation. May cause drowsiness or dizziness.	
Symptoms/injuries after skin contact	: Causes skin irritation.	
Symptoms/injuries after eye contact	: Causes serious eye damage.	
4.3. Indication of any immediate medical attention and special treatment needed		

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SECTION 5: Firefighting measures		
5.1.	Extinguishing media	
Suitabl	e extinguishing media	: Carbon dioxide. Foam. Dry powder.
Unsuita	able extinguishing media	: None known.
5.2.	Special hazards arising from	the substance or mixture
Fire ha	zard	: Highly flammable liquid and vapour.
Explos	ion hazard	: May form flammable/explosive vapour-air mixture.
5.3.	Advice for firefighters	
Firefigh	nting instructions	: Use water spray or fog for cooling exposed containers.
Protect	tion during firefighting	: Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. EN469.
SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
Genera	al 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. Wear suitable gloves.	
Emergency procedures	: Evacuate unnecessary personnel.	
6.1.2. For emergency responders		
Protective equipment	: Chemical goggles or safety glasses. Wear suitable gloves.	
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 containmen	8. Methods and material for containment and cleaning up	
For containment	: Stop leak if safe to do so.	

: Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Large Spills: Dike far ahead of spill for later disposal. Use a non-

combustible material like cermiculite, sand, or earth to soak up the product and place into a container for later disposal.

6.4. Reference to other sections

Methods for cleaning up

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. Use only outdoors or in a well-ventilated area. 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.	
7.2. Conditions for safe storage, includ	ing any incompatibilities	
Technical measures	 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, lighting, ventilating equipment. 	
Storage conditions	: Keep in fireproof place. Keep container tightly closed.	
Incompatible products	: Strong acids. Strong bases. Strong oxidizers.	
Incompatible materials	: Heat sources.	
Heat and ignition sources	: Keep away from heat, sparks and flame.	
Prohibitions on mixed storage	: Incompatible materials.	
Storage area	: Store in dry, cool, well-ventilated area.	
7.3. Specific end use(s)		

Marking.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

1-Butanol (71-36-3)		
United Kingdom	WEL STEL (mg/m ³)	154 mg/m³
United Kingdom	WEL STEL (ppm)	50 ppm

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1-Butanol (71-36-3)		
United Kingdom	Remark (WEL)	(Sk)
1-Methoxy-2-propanol (107-9	98-2)	
EU	IOELV TWA (mg/m ³)	375 mg/m ³
EU	IOELV TWA (ppm)	100 ppm
EU	IOELV STEL (mg/m ³)	568 mg/m ³
EU	IOELV STEL (ppm)	150 ppm
EU	Notes	Skin
United Kingdom	WEL TWA (mg/m ³)	375 mg/m ³
United Kingdom	WEL TWA (ppm)	100 ppm
United Kingdom	WEL STEL (mg/m³)	560 mg/m ³
United Kingdom	WEL STEL (ppm)	150 ppm
propan-1-ol (71-23-8)		
United Kingdom	WEL TWA (mg/m ³)	500 mg/m ³
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m ³)	625 mg/m³
United Kingdom	WEL STEL (ppm)	250 ppm
United Kingdom	Remark (WEL)	(Sk)

8.2. **Exposure controls**

Appropriate engineering controls Personal protective equipment	Ensure good ventilation of the work station. Eyewash stations.Avoid all unnecessary exposure.
Hand protection	: Use rubber gloves. EN374.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH. Approved respirator. EN 12083.
Other information	: Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

Physical state: LiquidAppearance: Solid marker containing liquid colored paint.Colour: Green.Odour: alcohols.Odour threshold: No data availablepH: No data availableRelative evaporation rate (butyl acetate=1): No data availableRelative evaporation rate (butyl acetate=1): No data availableFreezing point: No data availableFreezing point: No data availableBoiling point: 78 °CFlash point: 17 °CAuto-ignition temperature: No data availableDecomposition temperature: No data availableFlarmability (solid, gas): Highly flarmable liquid and vapourVapour pressure: No data availableRelative density: No data availableSolubility: No data availableLiog Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableExplosive properties: No data availableExplosive properties: No data availableExplosive properties: No data availableExplosive limits: No data availableExplosive limits: No data availableExplosive limits: No data available	9.1. Information on basic physical and chemical properties		
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	Oxidising properties	: No data available	
	Explosive limits	: No data available	
9.2. Other information	9.2. Other information		
VOC content : 65 - 100 %	VOC content	: 65 - 100 %	

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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.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Open flame. Direct sunlight. Heat.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
ethanol (64-17-5)	
LD50 oral rat	10470 mg/kg
LD50 dermal rabbit	> 20000 mg/kg
LC50 inhalation rat (mg/l)	133.8 mg/l/4h
ATE CLP (oral)	10470.000 mg/kg bodyweight
ATE CLP (vapours)	133.800 mg/l/4h
ATE CLP (dust,mist)	133.800 mg/l/4h
1-Butanol (71-36-3)	
ATE CLP (oral)	500.000 mg/kg bodyweight
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
Isopropanol (67-63-0)	
LD50 oral rat	5840 mg/kg
LD50 dermal rabbit	16.4 ml/kg
LC50 inhalation rat (ppm)	> 10000 ppm/4h
ATE CLP (oral)	5840.000 mg/kg bodyweight
Skin corrosion/irritation	: Causes skin irritation.
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

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SECTION 12: Ecological information

12.1. Toxicity

ethanol (64-17-5)	
LC50 fish 1	14200 mg/l
EC50 Daphnia 1	5012 mg/l
1-Methoxy-2-propanol (107-98-2)	
LC50 fish 1	20800 mg/l
EC50 Daphnia 1	23300 mg/l
ErC50 (algae)	> 1000 mg/l
propan-1-ol (71-23-8)	
LC50 fish 1	4555 mg/l 96 h
EC50 Daphnia 1	1000 mg/l 48 h
Isopropanol (67-63-0)	
LC50 fish 1	10000 mg/l

12.2. Persistence and degradability

ethanol (64-17-5)	
Biodegradation	> 96 % 28 d
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
Isopropanol (67-63-0)	
Persistence and degradability Readily biodegradable.	
2.3. Bioaccumulative potential	

ethanol (64-17-5)	
Bioaccumulative potential	Not expected to bioaccumulate.
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
Isopropanol (67-63-0)	
Bioaccumulative potential	Not expected to bioaccumulate.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

DURA-INK® 15, 25, 55, 60, 200 Green	
PBT: not yet assessed	
vPvB: not yet assessed	

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	
13.1. Waste treatment 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 vapours are flammable.
European List of Waste (LoW) code	: For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used

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H code		 H3-A - 'Highly flammable' : — liquid substances and preparations having a flash point below 21 °C (including extremely flammable liquids), or
		 substances and preparations which may become hot and finally catch fire in contact with air at ambient temperature without any application of energy, or solid substances and preparations which may readily catch fire after brief contact with a
		 Solid substances and preparations which may reaching catching after brind contact with a source of ignition, or — gaseous substances and preparations which are flammable in air at normal pressure, or — substances and preparations which, in contact with water or damp air, evolve highly flammable gases in dangerous quantities H4 - 'Irritant': non-corrosive substances and preparations which, through immediate, prolonged or repeated contact with the skin or mucous membrane, can cause inflammation
SECTI	ON 14: Transport information	
In accord	dance with ADR / RID / IMDG / IATA / A	\DN
14.1.	UN number	
Not cons	sidered a dangerous good for transport	regulations
14.2.	UN proper shipping name	
Proper S	Shipping Name (ADR)	:
14.3. Not appl	Transport hazard class(es) icable	
14.4.	Packing group	
Not appl		
14.5.	Environmental hazards	
Other inf	ormation	: No supplementary information available.
14.6.	Special precautions for user	
14.6.1.	Overland transport	
No addit	ional information available	
14.6.2.	Transport by sea	
No addit	ional information available	
14.6.3.	Inland waterway transport	

Carriage prohibited (ADN)

: No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances VOC content : 65 - 100 %

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

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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

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Т	SCA: Toxic Substances Contro	ol Act
Data sources		ESIS (European chemincal Substances Information System; accessed at: http://esis.jrc.ec.europa.eu/index.php?PGM=cla.
		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.
		OSHA 29CFR 1910.1200 Hazard Communication Standard.
		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.
Other information	:	None.
Full text of R-, H- and	d EUH-statements:	
Acute Tox. 4 (Oral)		Acute toxicity (oral), Category 4
Aquatic Chronic 2		Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Dam. 1		Serious eye damage/eye irritation, Category 1
Eye Irrit. 2		Serious eye damage/eye irritation, Category 2
Flam. Liq. 2		Flammable liquids, Category 2
Flam. Liq. 3		Flammable liquids, Category 3
Skin Irrit. 2		Skin corrosion/irritation, Category 2
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
H302		Harmful if swallowed
H315		Causes skin irritation
H318		Causes serious eye damage
H319		Causes serious eye irritation
H335		May cause respiratory irritation
H336		May cause drowsiness or dizziness
H411		Toxic to aquatic life with long lasting effects
Classification and pr	ocedure used to derive the clas	ssification for mixtures according to Regulation (EC) 1272/2008 [CLP]:
Flam. Liq. 2	H225	On basis of test data
Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method

LA-CO EU CLP SDS United Kingdom

STOT SE 3

STOT SE 3

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

H335

H336

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

Calculation method

Calculation method