LA-CO Industries, Inc.

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: 06/02/2020 Version: 1.0

SECTION 1: Identification

11 Identification

Product form Mixture

Trade name Dura-Ink ® + Aerospace

1.2. Recommended use and restrictions on use

Use of the substance/mixture

Restrictions on use No additional information available

1.3. Supplier

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

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

21 Classification of the substance or mixture

GHS classification

Flammable liquids, Category 2 Skin sensitisation, Category 1

Specific target organ toxicity — Single exposure, Category 3, Narcosis

Hazardous to the aquatic environment — Chronic Hazard, Category 3

Full text of H statements : see section 16

H225 Highly flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

2.2. GHS Label elements, including precautionary statements

GHS-US labelling

Hazard pictograms (GHS)





Signal word (GHS) Danger

Hazard statements (GHS) H225 - Highly flammable liquid and vapour. H317 - May cause an allergic skin reaction. H336 - May cause drowsiness or dizziness.

H412 - Harmful to aquatic life with long lasting effects.

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 equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge

P261 - Avoid breathing mist, spray, vapours

P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing must not be allowed out of the workplace

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing P302+P352 - If on skin: Wash with plenty of water.

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/doctor if you feel unwell

P321 - Specific treatment (see First aid measures on this label)

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P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P370+P378 - In case of fire: Use carbon dioxide (CO2), dry extinguishing powder, Foam, 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.

P405 - Store locked up.

P501 - Dispose of contents/container to Collection point.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS_US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	% (w/w)	GHS classification
1-Methoxy-2-propanol	(CAS-No.) 107-98-2	40 - 60	Flam. Liq. 3, H226 STOT SE 3, H336
ethanol	(CAS-No.) 64-17-5	5 - 15	Flam. Liq. 2, H225
C.I. Solvent Black 29	(CAS-No.) 117527-94-3	3 - 7	Aquatic Chronic 2, H411
Isopropanol	(CAS-No.) 67-63-0	1 - 3	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Ethyl acetate	(CAS-No.) 141-78-6	1-3	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	(CAS-No.) 41556-26-7	0.1 - 0.5	Flam. Liq. 4, H227 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Polyethylene glycol di[3-[3-(2H-benzotriazol-2- yl)-5-tert-butyl-4-hydroxyphenyl]- 1-oxopropyl] ether	(CAS-No.) 104810-47-1	0.01 - 0.2	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Poly (oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-hydroxy-	(CAS-No.) 104810-48-2	0.01 - 0.2	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl-4- piperidinyl) ester	(CAS-No.) 82919-37-7	0.01 - 0.2	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

^{*}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. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Wash skin

thoroughly with mild soap and water. If skin irritation or rash occurs: Get medical

advice/attention. Wash contaminated clothing before reuse.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

First-aid measures after ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. Call a POISON

CENTER/doctor if you feel unwell.

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

Symptoms/effects after inhalation : May cause drowsiness or dizziness. Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : Direct contact with the eyes is likely to be irritating

4.3. Immediate medical attention and special treatment, if necessary

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

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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Water spray.

Unsuitable extinguishing media : None known.

5.2. Specific hazards arising from the chemical

Fire hazard : Highly flammable liquid and vapour.

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

Reactivity : No dangerous reactions known.

5.3. Special protective equipment and precautions for fire-fighters

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. Use

self-contained breathing apparatus.

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 contact with skin and eyes.

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable gloves. In case of inadequate ventilation wear respiratory protection.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Avoid breathing fumes, vapour. Wear suitable gloves. Where excessive vapour, mist, or dust

may result, use approved respiratory protection equipment.

Emergency procedures : Ventilate area

6.2. Environmental precautions

Avoid release to the environment. Prevent dispersion

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 fumes, vapour. Use

only outdoors or in a well-ventilated area.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. 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

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

Incompatible products : Strong oxidizers Incompatible materials : Heat sources.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) ester (82919-37-7)

Not applicable

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Ethyl acetate (141-78	3-6)		
ACGIH	Local name	Ethyl acetate	
ACGIH	ACGIH TWA (mg/m³)	1440 mg/m³	
ACGIH	ACGIH TWA (ppm)	400 ppm	
ACGIH	Remark (ACGIH)	TLV® Basis: URT & eye irr	
ACGIH	Regulatory reference	ACGIH 2020	
OSHA	OSHA PEL (TWA) (mg/m³)	1400 mg/m³	
OSHA	OSHA PEL (TWA) (ppm)	400 ppm	
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
NIOSH	NIOSH REL (TWA) (mg/m³)	1400 mg/m³	
NIOSH	NIOSH REL (TWA) (ppm)	400 ppm	
ethanol (64-17-5)			
ACGIH	Local name	Ethanol	
ACGIH	ACGIH TWA (mg/m³)	1884 mg/m³	
ACGIH	ACGIH TWA (ppm)	1000 ppm	
ACGIH	ACGIH STEL (ppm)	1000 ppm	
ACGIH	Remark (ACGIH)	TLV® Basis: URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)	
ACGIH	Regulatory reference	ACGIH 2020	
OSHA	OSHA PEL (TWA) (mg/m³)	1900 mg/m³	
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm	
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
NIOSH	NIOSH REL (TWA) (mg/m³)	1900 mg/m³	
NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm	
Isopropanol (67-63-0))	·	
ACGIH	Local name	2-Propanol	
ACGIH	ACGIH TWA (mg/m³)	490 mg/m³	
ACGIH	ACGIH TWA (ppm)	200 ppm	
ACGIH	ACGIH STEL (mg/m³)	960 mg/m³	
ACGIH	ACGIH STEL (ppm) 400 ppm		
ACGIH	Remark (ACGIH)	TLV® Basis: Eye & URT irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI	
ACGIH	Regulatory reference	ACGIH 2020	
OSHA	OSHA PEL (TWA) (mg/m³)	980 mg/m³	
OSHA	OSHA PEL (TWA) (ppm)	400 ppm	
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
NIOSH	NIOSH REL (TWA) (mg/m³)	980 mg/m³	
NIOSH	NIOSH REL (TWA) (ppm)	400 ppm	
NIOSH	NIOSH REL (STEL) (mg/m³)	1225 mg/m³	
NIOSH	NIOSH REL (STEL) (ppm)	500 ppm	
1-Methoxy-2-propan	•		
ACGIH	Local name	1-Methoxy-2-propanol	
ACGIH	ACGIH TWA (mg/m³)	369 mg/m³	
ACGIH	ACGIH TWA (ppm)	50 ppm	
ACGIH	ACGIH STEL (mg/m³)	553 mg/m³	

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1-Methoxy-2-propanol (107-98-2)				
ACGIH	ACGIH STEL (ppm)	100 ppm		
ACGIH	Remark (ACGIH)	Eye irr; CNS impair; A4 (Not classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of a lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories)		
NIOSH	NIOSH REL (TWA) (mg/m³)	360 mg/m³		
NIOSH	NIOSH REL (TWA) (ppm)	100 ppm		
NIOSH	NIOSH REL (STEL) (mg/m³)	540 mg/m³		
NIOSH	NIOSH REL (STEL) (ppm)	150 ppm		
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)				

Not applicable

Polyethylene glycol di[3-[3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl]- 1-oxopropyl] ether (104810-47-1)

Not applicable

Not applicable

C.I. Solvent Black 29 (117527-94-3)

Not applicable

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide local exhaust ventilation of closed transfer systems to minimize exposures.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure

Hand protection:

In case of repeated or prolonged contact wear gloves. Butyl rubber gloves, short term, nitrile rubber gloves,

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Long sleeved protective clothing

Respiratory protection:

None under normal use

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 : Solvent

Odour threshold : No data available pH : No data available Melting point : No data available Freezing point : No data available Boiling point : 79 °C estimated Flash point : 16 °C estimated

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Relative evaporation rate (butylacetate=1) : No data available

Flammability (solid, gas) : Highly flammable liquid and vapour.

Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Density : 1.05 g/ml

Solubility No data available : No data available Log Pow No data available Auto-ignition temperature Decomposition temperature No data available Viscosity, kinematic No data available No data available Viscosity, dynamic Explosive limits : No data available Explosive properties No data available Oxidising properties No data available

9.2. Other information

VOC content : 72 % / 6.3 lbs/gal / 756 g/L

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.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

May release flammable gases.

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

Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) ester (82919-37-7)		
LD50 oral rat	> 2000 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
Ethyl acetate (141-78-6)		
LD50 oral rat	4934 mg/kg	
LD50 dermal rabbit	> 20000 mg/kg	
LC50 inhalation rat (mg/l)	> 18 mg/l/4h	
ATE (oral)	4934 mg/kg bodyweight	
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 (oral)	10470 mg/kg bodyweight	
ATE (vapours)	133.8 mg/l/4h	

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ethanol (64-17-5)	
ATE (dust,mist)	133.8 mg/l/4h
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 (oral)	5840 mg/kg bodyweight
ATE (dermal)	16400 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 (oral)	4016 mg/kg bodyweight
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebaca	ate (41556-26-7)
LD50 oral rat	2369 (2369 – 3920) mg/kg
ATE (oral)	2369 mg/kg bodyweight
· ·	-2- yl)-5-tert-butyl-4-hydroxyphenyl]- 1-oxopropyl] ether (104810-47-1)
LD50 oral rat	> 5000 mg/kg bodyweight
LD50 darrat	> 2000 mg/kg bodyweight > 2000 mg/kg bodyweight
	riazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-hydroxy- (104810-48-2)
LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight
C.I. Solvent Black 29 (117527-94-3)	
LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight
kin corrosion/irritation	: Not classified
erious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
ethanol (64-17-5)	
IARC group	1 - Carcinogenic to humans, Alcoholic beverages
Isopropanol (67-63-0)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
TOT-single exposure	: May cause drowsiness or dizziness.
	. May cause arowsiness of alexiness.
Ethyl acetate (141-78-6)	
STOT-single exposure	May cause drowsiness or dizziness.
Isopropanol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.
	*
1-Methoxy-2-propanol (107-98-2)	May cause drawiness or dissing
STOT-single exposure	May cause drowsiness or dizziness.
TOT-repeated exposure	: Not classified
Ethyl acetate (141-78-6)	
NOAEL (subchronic, oral, animal/male, 90	900 mg/kg bodyweight
days)	
NOAEL (subchronic, oral, animal/female, 90 days)	900 mg/kg bodyweight
Aspiration hazard	: Not classified
riscosity, kinematic	: No data available
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Likely routes of exposure : Skin and eye contact. Inhalation.

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

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : Direct contact with the eyes is likely to be irritating.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

Ethyl acetate (141-78-6)	
LC50 fish 1	220 mg/l
EC50 crustacea	1200 mg/l
NOEC chronic fish	< 9.35 mg/l
ethanol (64-17-5)	
LC50 fish 1	14200 mg/l
EC50 crustacea	5012 mg/l
Isopropanol (67-63-0)	
LC50 fish 1	10000 mg/l
1-Methoxy-2-propanol (107-98-2)	
LC50 fish 1	20800 mg/l
EC50 crustacea	23300 mg/l
ErC50 (algae)	> 1000 mg/l
bis(1,2,2,6,6-pentamethyl-4-pipe	ridyl) sebacate (41556-26-7)
LC50 fish 1	0.97 mg/l 96 h
EC50 crustacea	20 mg/l 24 h
Polyethylene glycol di[3-[3-(2H-b	penzotriazol-2- yl)-5-tert-butyl-4-hydroxyphenyl]- 1-oxopropyl] ether (104810-47-1)
LC50 fish 1	2.8 mg/l Oncorhynchus mykiss
EC50 crustacea	4 mg/l
ErC50 (algae)	> 9 mg/l
NOEC (chronic)	1 mg/l
Poly(oxy-1,2-ethanediyl), a-[3-[3-	(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-hydroxy- (104810-48-2)
LC50 fish 1	2.8 mg/l Oncorhynchus mykiss
EC50 crustacea	4 mg/l
ErC50 (algae)	> 9 mg/l
NOEC (chronic)	1 mg/l
C.I. Solvent Black 29 (117527-94-	.3)
LC50 fish 1	2 mg/l 96 h

12.2. Persistence and degradability

Dura-Ink ® + Aerospace				
Persistence and degradability	May cause long-term adverse effects in the environment.			
Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) ester (82919-37-7)				
Persistence and degradability	Not readily biodegradable.			
Ethyl acetate (141-78-6)				
Persistence and degradability	Readily biodegradable.			
ethanol (64-17-5)	ethanol (64-17-5)			
Biodegradation	> 96 % 28 d			
Isopropanol (67-63-0)				
Persistence and degradability	Readily biodegradable.			
1-Methoxy-2-propanol (107-98-2)				
Persistence and degradability	Readily biodegradable.			
Biodegradation	96 % 28 d			

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bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)			
Biodegradation	38 % 28 d		
Polyethylene glycol di[3-[3-(2H-benzotriazol-2- yl)-5-tert-butyl-4-hydroxyphenyl]- 1-oxopropyl] ether (104810-47-1)			
Persistence and degradability	Not readily biodegradable.		
Biodegradation	24 %		
Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benz	otriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-hydroxy- (104810-48-2)		
Persistence and degradability	Not readily biodegradable.		
Biodegradation	24 %		
C.I. Solvent Black 29 (117527-94-3)			
Persistence and degradability	Not readily biodegradable.		

12.3. Bioaccumulative potential

Dura-Ink ® + Aerospace				
Bioaccumulative potential	Not established.			
Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) ester (82919-37-7)				
Log Pow	2.37			
Ethyl acetate (141-78-6)				
Bioaccumulative potential	Not expected to bioaccumulate.			
ethanol (64-17-5)				
Bioaccumulative potential	Not expected to bioaccumulate.			
Isopropanol (67-63-0)				
Bioaccumulative potential	Not expected to bioaccumulate.			
1-Methoxy-2-propanol (107-98-2)				
Bioaccumulative potential	Not expected to bioaccumulate.			
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)				
Log Pow	0.37			
Polyethylene glycol di[3-[3-(2H-benzotriazol-2-	- yl)-5-tert-butyl-4-hydroxyphenyl]- 1-oxopropyl] ether (104810-47-1)			
Bioconcentration factor (BCF REACH)	34			
Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-hydroxy- (104810-48-2)				
Bioconcentration factor (BCF REACH)	34			
C.I. Solvent Black 29 (117527-94-3)				
Log Pow	< 3.7 @ 20 °C			

12.4. Mobility in soil

Dura-Ink ® + Aerospace	
Ecology - soil	No additional information available.

12.5. Other adverse effects

Other information : No additional information available.

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 vapours are flammable.

Ecology - waste materials : Avoid release to the environment

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1263 Paint, 3, II

UN-No.(DOT) : UN1263

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Proper Shipping Name (DOT) : Paint

Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Packing group (DOT) : II - Medium Danger Hazard labels (DOT) : 3 - Flammable liquid



Other information : No supplementary information available.

Transportation of Dangerous Goods

Transport document description : UN 1263 PAINT, 3, II

UN-No. (TDG) : UN 1263
Proper Shipping Name (Transportation of : PAINT

Dangerous Goods)

Primary Hazard Classes : 3 - Class 3 - Flammable Liquids

Packing group : II - Medium Danger

Transport by sea

Transport document description (IMDG) : UN 1263 PAINT, 3, II

UN-No. (IMDG) : 1263
Proper Shipping Name (IMDG) : PAINT

Class (IMDG) : 3 - Flammable liquids

Packing group (IMDG) : II - substances presenting medium danger

Limited quantities (IMDG) : 5 L

Air transport

Transport document description (IATA) : UN 1263 PAINT, 3, II

UN-No. (IATA) : 1263 Proper Shipping Name (IATA) : PAINT

Class (IATA) : 3 - Flammable Liquids
Packing group (IATA) : II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Ethyl acetate (141-78-6)		
CERCLA RQ	5000 lb	
Isopropanol (67-63-0)		
Subject to reporting requirements of United States SARA Section 313		
SARA Section 311/312 Hazard Classes	Fire hazard	

15.2. International regulations

CANADA

Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) ester (82919-37-7)

Listed on the Canadian DSL (Domestic Substances List) inventory

Ethyl acetate (141-78-6)

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

ethanol (64-17-5)

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

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Isopropanol (67-63-0)

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

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

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

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)

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

Polyethylene glycol di[3-[3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl]- 1-oxopropyl] ether (104810-47-1)

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

Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-hydroxy- (104810-48-2)

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

C.I. Solvent Black 29 (117527-94-3)

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

EU-Regulations

Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) ester (82919-37-7)

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

Ethyl acetate (141-78-6)

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

Isopropanol (67-63-0)

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

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

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

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)

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

Polyethylene glycol di[3-[3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl]- 1-oxopropyl] ether (104810-47-1)

Not listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-hydroxy- (104810-48-2)

Not listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

C.I. Solvent Black 29 (117527-94-3)

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

National regulations

Dura-Ink ® + Aerospace

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

Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) ester (82919-37-7)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on Taiwan National Chemical Inventory

Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Ethyl acetate (141-78-6)

Listed on the AICS (Australian Inventory of Chemical Substances)

ethanol (64-17-5)

Listed on IARC (International Agency for Research on Cancer)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Chinese Catalog of Hazardous Chemicals.

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on Taiwan National Chemical Inventory

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the AICS (Australian Inventory of Chemical Substances)

Isopropanol (67-63-0)

Listed on the AICS (Australian Inventory of Chemical Substances)

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Isopropanol (67-63-0)

Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on Taiwan National Chemical Inventory

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

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

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on Taiwan National Chemical Inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on Taiwan National Chemical Inventory

Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Polyethylene glycol di[3-[3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl]- 1-oxopropyl] ether (104810-47-1)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on Taiwan National Chemical Inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Not listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-hydroxy- (104810-48-2)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Not listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on Taiwan National Chemical Inventory

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

C.I. Solvent Black 29 (117527-94-3)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on Taiwan National Chemical Inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

15.3. US State regulations



This product can expose you to formaldehyde, which is known to the State of California to cause cancer, and Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
formaldehyde(50-00- 0)	X				40 μg/day	
Methanol(67-56-1)		X				47000 μg/day (inhalation); 23,000 μg/day (oral)

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Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Naphthalene(91-20-3)	X				5.8 µg/day	

Component	State or local regulations
Ethyl acetate(141-78-6)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances; U.S Pennsylvania - RTK (Right to Know) List
ethanol(64-17-5)	U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances; U.S Pennsylvania - RTK (Right to Know) List
Isopropanol(67-63-0)	U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances
1-Methoxy-2-propanol(107-98-2)	U.S Idaho - Occupational Exposure Limits - Ceilings; U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs); U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; 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; U.S Washington - Permissible Exposure Limits - STELs; U.S Washington - Permissible Exposure Limits - TWAs

SECTION 16: Other information

Data sources

ESIS (European chemincal Substances Information System; accessed at: http://esis.jrc.ec.europa.eu/index.php?PGM=cla. ACGIH 2000. 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. TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html.

Other information : None.

Full text of H-statements:

Highly flammable liquid and vapour.	
Flammable liquid and vapour.	
Combustible liquid	
May cause an allergic skin reaction.	
Causes serious eye irritation.	
May cause drowsiness or dizziness.	
Very toxic to aquatic life.	
Very toxic to aquatic life with long lasting effects.	
Toxic to aquatic life with long lasting effects.	
Harmful to aquatic life with long lasting effects.	

Abbreviations and acronyms:

ACGIH (American Conference of Government Industrial Hygienists)	
ATE: Acute Toxicity Estimate	
CAS (Chemical Abstracts Service) number	

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CLP: Classification, Labelling, Packaging.	
DNEL: Derived No Effect Level	
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	
NOEC: No Observable Effect Concentration	
OSHA: Occupational Safety & Health Administration	
PBT: Persistent, Bioaccumulative, Toxic	
PNEC: Predicted No Effect Level	
STEL: Short Term Exposure Limits	
TSCA: Toxic Substances Control Act	
TWA: Time Weighted Average	

NFPA health hazard

: 2 - Materials that, under emergency conditions, can cause

temporary incapacitation or residual injury.

NFPA fire hazard

4 - Materials that rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air and burn readily.

NFPA reactivity

: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.



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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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