LA-CO Industries, Inc.

Dura-Ink ® + Aerospace

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: 6/2/2020 Revision date: 8/16/2022 Supersedes: 6/2/2020 Version: 2.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : Dura-Ink ® + Aerospace

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Marking
Restrictions on use : No data 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

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 classification

Flammable liquids, Category 2	H225	Highly flammable liquid and vapour.
Skin sensitisation, Category 1	H317	May cause an allergic skin reaction.
Reproductive toxicity, Category 2	H361	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412	Harmful to aquatic life with long lasting effects.

Full text of H-statements: see section 16

2.2. GHS Label elements, including precautionary statements

GHS 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.
H361 - Suspected of damaging fertility or the unborn child.
H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (GHS) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
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, eye protection, face protection.
P302+P352 - If on skin: Wash with plenty of soap and 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.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P312 - Call a POISON CENTER, a doctor if you feel unwell.
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.
P235 - 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 data 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 US 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	Skin Sens. 1, H317 Repr. 2, H361 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 : IF exposed or concerned: Get medical advice/attention. Never give anything by mouth to an unconscious person.

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. Get medical advice/attention.

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. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/effects : May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child.

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.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

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

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : Highly flammable liquid and vapour.

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

Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide.

5.3. Special protective equipment and precautions for fire-fighters

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

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes. Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel

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

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Avoid breathing mist, spray, vapours. Avoid contact with skin and eyes. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Wear suitable gloves. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment. Equip cleanup crew with proper protection. Avoid breathing mist, vapours, Spray. For further

information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent dispersion. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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. Collect spillage. 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. Notify authorities if product enters sewers or public waters. Store away from other materials.

Other information : Dispose of materials or solid residues at an authorized site.

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 : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Use explosion-proof equipment. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use only outdoors or in a well-ventilated area. Wear personal protective equipment. Avoid breathing mist, spray, vapours. Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment. Use explosion-proof electrical, lighting, ventilating equipment.

Storage conditions : Keep container tightly closed and in a well-ventilated place. Keep away from heat, flame, and sources of ignition. Keep cool. Keep in fireproof place. Store in original container. Store locked up.

Incompatible products : Strong oxidizers. Strong bases. Strong acids.

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)	
No data available	

Ethyl acetate (141-78-6)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Ethyl acetate
ACGIH TWA (mg/m³)	1440 mg/m³
ACGIH OEL TWA [ppm]	400 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr
Regulatory reference	ACGIH 2022

Ethyl acetate (141-78-6)	
USA - OSHA - Occupational Exposure Limits	
Local name	Ethyl acetate
OSHA PEL TWA [1]	1400 mg/m³
OSHA PEL TWA [2]	400 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL TWA	1400 mg/m³
NIOSH REL TWA [ppm]	400 ppm

Ethanol (64-17-5)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Ethanol
ACGIH TWA (mg/m³)	1884 mg/m³
ACGIH OEL TWA [ppm]	1000 ppm
ACGIH OEL STEL [ppm]	1000 ppm
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2022
USA - OSHA - Occupational Exposure Limits	
Local name	Ethyl alcohol (Ethanol)
OSHA PEL TWA [1]	1900 mg/m³
OSHA PEL TWA [2]	1000 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL TWA	1900 mg/m³
NIOSH REL TWA [ppm]	1000 ppm

Isopropanol (67-63-0)	
USA - ACGIH - Occupational Exposure Limits	
Local name	2-Propanol
ACGIH TWA (mg/m³)	490 mg/m³
ACGIH OEL TWA [ppm]	200 ppm
ACGIH STEL (mg/m³)	960 mg/m³
ACGIH OEL STEL [ppm]	400 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2022
USA - ACGIH - Biological Exposure Indices	
Local name	2-PROPANOL

Isopropanol (67-63-0)	
BEI	40 mg/l Parameter: Acetone - Medium: urine - Sampling time: End of shift at end of workweek - Notations: B, Ns
Regulatory reference	ACGIH 2022
USA - OSHA - Occupational Exposure Limits	
Local name	Isopropyl alcohol
OSHA PEL TWA [1]	980 mg/m³
OSHA PEL TWA [2]	400 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL TWA	980 mg/m³
NIOSH REL TWA [ppm]	400 ppm
NIOSH REL STEL	1225 mg/m³
NIOSH REL STEL [ppm]	500 ppm

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)
Regulatory reference	ACGIH 2022
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL TWA	360 mg/m³
NIOSH REL TWA [ppm]	100 ppm
NIOSH REL STEL	540 mg/m³
NIOSH REL STEL [ppm]	150 ppm

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)
No data available

Polyethylene glycol di[3-[3-(2H-benzotriazol-2- yl)-5-tert-butyl-4-hydroxyphenyl]- 1-oxopropyl] ether (104810-47-1)
No data available

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)
No data available

C.I. Solvent Black 29 (117527-94-3)
No data available

8.2. Appropriate engineering controls

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

ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:
Avoid all unnecessary exposure.

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

Personal protective equipment symbol(s):

Other information:
Do not eat, drink or smoke during 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	:	Not applicable
Freezing point	:	No data available
Boiling point	:	79 °C estimated
Flash point	:	16 °C estimated
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
Log Pow	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
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

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition. Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong oxidizers. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. fume. Carbon monoxide. Carbon dioxide. 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	> 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	133.8 mg/l/4h
ATE (oral)	10470 mg/kg bodyweight
ATE (vapours)	133.8 mg/l/4h
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

Isopropanol (67-63-0)	
ATE (dermal)	13120 mg/kg bodyweight

1-methoxy-2-propanol (107-98-2)	
LD50 Oral rat	4016 mg/kg Source: ECHA
LD50 Dermal rat	> 2000 mg/kg bodyweight 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

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
LD50 Oral rat	2369 (2369 – 3920) mg/kg
ATE (oral)	2369 mg/kg bodyweight

Polyethylene glycol di[3-[3-(2H-benzotriazol-2- yl)-5-tert-butyl-4-hydroxyphenyl]- 1-oxopropyl] ether (104810-47-1)	
LD50 Oral rat	5000 mg/kg Source: BASF Canada Inc.
LD50 Dermal rat	> 2000 mg/kg bodyweight
ATE (oral)	5000 mg/kg bodyweight

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)	
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

Skin corrosion/irritation : Not classified

Serious 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 : Suspected of damaging fertility or the unborn child.

Ethyl acetate (141-78-6)	
NOAEL (animal/male, F0/P)	26400 mg/kg
NOAEL (animal/female, F0/P)	26400 mg/kg

STOT-single exposure : May cause drowsiness or dizziness.

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)

1-methoxy-2-propanol (107-98-2)	
STOT-single exposure	May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified

Ethyl acetate (141-78-6)	
LOAEL (oral, rat, 90 days)	3600 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
NOAEL (oral, rat, 90 days)	900 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
NOAEL (subchronic, oral, animal/male, 90 days)	900 mg/kg bodyweight
NOAEL (subchronic, oral, animal/female, 90 days)	900 mg/kg bodyweight

1-methoxy-2-propanol (107-98-2)	
LOAEL (oral, rat, 90 days)	2757 mg/kg bodyweight 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 bodyweight 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 bodyweight 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 : Skin and eye contact. Inhalation.

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/effects : Suspected of damaging fertility or the unborn child.

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.

Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) ester (82919-37-7)	
LC50 fish 1	0.996 mg/l

Ethyl acetate (141-78-6)	
LC50 fish 1	220 mg/l
EC50 crustacea	1200 mg/l
NOEC (chronic)	2.4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	> 75.6 mg/l 32 d

Ethanol (64-17-5)	
LC50 fish 1	14200 mg/l
EC50 crustacea	5012 mg/l
ErC50 algae	275 mg/l Source: ECHA

Isopropanol (67-63-0)	
LC50 fish 1	10000 mg/l

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

bis(1,2,2,6,6-pentamethyl-4-piperidyl) 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-benzotriazol-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)	
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 days

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)

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-benzotriazol-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)	
Log Pow	0.73 Source: ICSC
Bioaccumulative potential	Not expected to bioaccumulate.

Ethanol (64-17-5)	
Log Pow	-0.32 Source: ICSC
Bioaccumulative potential	Not expected to bioaccumulate.

Isopropanol (67-63-0)	
Log Pow	0.05 Source: ICSC
Bioaccumulative potential	Not expected to bioaccumulate.

1-methoxy-2-propanol (107-98-2)	
Log Pow	-0.49 Source: HSDB
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
Log Pow	5.9 Source: ECHA

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 data available.

12.5. Other adverse effects

Other information : No data available. Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations : Do not dispose of waste into sewer.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information : Flammable vapours may accumulate in the container. Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1. UN number

DOT NA No : UN1263

UN-No. (TDG) : UN 1263

UN-No. (IMDG) : 1263

UN-No. (IATA) : 1263

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Paint

Proper Shipping Name (TDG) : PAINT

Proper Shipping Name (IMDG) : PAINT

Proper Shipping Name (IATA) : PAINT

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : 3

Hazard labels (DOT) : 3

TDG

Transport hazard class(es) (TDG) : 3

IMDG

Transport hazard class(es) (IMDG) : 3

Danger labels (IMDG) : 3

IATA

Transport hazard class(es) (IATA) : 3

Danger labels (IATA) : 3

14.4. Packing group

Packing group (DOT) : II
Packing group (TDG) : II
Packing group (IMDG) : II
Packing group (IATA) : II

14.5. Environmental hazards

Other information : No supplementary information available.

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

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Isopropanol	CAS-No. 67-63-0	1 - 3%

Ethyl acetate (141-78-6)	
CERCLA RQ	5000 lb

Isopropanol (67-63-0)	
SARA Section 311/312 Hazard Classes	Fire hazard

15.2. International 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 introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
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)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Ethyl acetate (141-78-6)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Chinese Catalog of Hazardous Chemicals.
Listed on Chinese List of Hazardous Chemicals for Priority Management-SAWS
Listed on the China threshold of permit for use of hazardous chemicals
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Ethanol (64-17-5)

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 the China Inventory of specially controlled hazardous chemicals
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Isopropanol (67-63-0)

This substance is in compliance with chemical notification requirements in Australia (AICS)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
CSCL: Japanese Chemical Substances Control Law
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Mexico - National Inventory of Chemical Substances
Listed on NZIoC (New Zealand Inventory of Chemicals)
Chinese Catalog of Hazardous Chemicals:
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

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

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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 introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
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)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

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 the TCSI (Taiwan Chemical Substance Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS 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 KECI (Korean Existing Chemicals Inventory)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

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

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 NZIoC (New Zealand Inventory of Chemicals)
Listed on Taiwan National Chemical Inventory
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)

15.3. US State regulations

⚠ **WARNING:** 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	State or local regulations
Ethyl acetate(141-78-6)	U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

SECTION 16: Other information

Revision date : 08/16/2022

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	
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	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

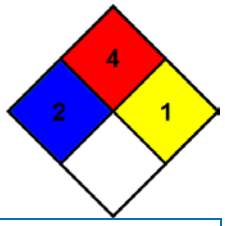
Abbreviations and acronyms	
	CLP: Classification, Labelling, Packaging.
	DNEL: Derived No Effect Level
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% 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
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit

Abbreviations and acronyms	
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

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.



Indication of changes:
GHS classification.

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.