

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

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SECTION 1: Identification

1.1. Product identifier

Product form : Mixture

Trade name : CLEAR #1 UV RESISTANT CLEARCOAT AEROSOL

Product code : CLEAR/AL UP Number UP0796
Product group : aerosol

1.2. Recommended use and restrictions on use

Recommended use : Topcoat

1.3. Supplier

Supplier

U-POL Canada Limited P.O. Box P.O. BOX 48600 BC V7X 1T2 Vancouver - Canada T 1-800-424-9300

technicalsupport@u-pol.com - www.u-pol.com

1.4. Emergency telephone number

Emergency number : 1-800-424-9300 (CHEMTREC)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Flammable aerosol Category 1

Gases under pressure Liquefied gas

Skin corrosion/irritation Category 2

H315

Serious eye damage/eye irritation Category 1

H318

Skin sensitization, Category 1

H317

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

H336

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS CA labeling

Hazard pictograms (GHS CA)









Signal word (GHS CA) : Danger

Hazard statements (GHS CA) : H222 - Extremely flammable aerosol

H280 - Contains gas under pressure; may explode if heated

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H318 - Causes serious eye damage H336 - May cause drowsiness or dizziness

Precautionary statements (GHS CA) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.
P261 - Avoid breathing vapors, spray, fume.
P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.

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

P280 - Wear protective gloves, protective clothing, eye protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 - Call a doctor if you feel unwell.

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

P362+P364 - Take off contaminated clothing and wash it before reuse.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

2.3. Other hazards

2.4. Unknown acute toxicity (GHS CA)

9.81% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapors))

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
dimethyl ether	dimethyl ether DEMEON D / dimethyl ether / dimethyl oxide / DYMEL A / ether, dimethyl / ether, methyl / methane, oxybis- / methyl ether / methyl oxide / oxibismethane / oxy-bis(methane) / oxybismethane / wood ether	(CAS-No.) 115-10-6	40 – 45	Flam. Gas 1, H220 Press. Gas (Liq.), H280
n-butyl acetate	n-butyl acetate 1-acetoxybutane / 1-butyl acetate / acetate of butyl / acetic acid n-butyl ester / acetic acid normal-butyl ester / acetic acid, butyl ester / BUAC / BuAc (=butyl acetate) / butanolacetate / butyl acetate / butyl ethanoate / n-BuAc / n-butyl acetate / normal-butylacetate / normal- butylethanoate	(CAS-No.) 123-86-4	10 – 13	Flam. Liq. 3, H226 STOT SE 3, H336
cyclohexanone	cyclohexanone anon / anone / caswell No 270 / cyclohexanone / cyclohexanone, selectophore / cyclohexyl ketone / epa pesticide chemical code 025902 / hexanon(=cyclohexanone) / hytiol / hytrol O / keto hexamethylene / ketohexamethylene / MATTHEWS 10 thinner/cleaner / nadone / pimelic ketone / pimelin ketone / sextone	(CAS-No.) 108-94-1	10 – 13	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318
ethyl methyl ketone	ethyl methyl ketone 2-butanone / 2-oxobutane / 3- butanone / acetone, methyl- / Al3- 07540 / butan-2-one / butanone / Caswell NO 569 / ethyl methyl ketone / EXXON methylethyl ketone / FEMA N°. 2170 / ketone, ethyl methyl- / meetco / MEK (= methyl ethyl ketone) / methyl 2-propanone / methyl acetone / Product code S2113	(CAS-No.) 78-93-3	7 – 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
methyl acetate	methyl acetate acetate of methyl / acetic acid methyl ester / acetic acid, methyl ester / devoton / ethyl ester of monoacetil acid / methyl acetate / methyl acetate, anhydrous / methyl acetic ester / methyl ester acetic acid / methyl ethanoate / tereton	(CAS-No.) 79-20-9	7 – 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
CELLULOSE ACETATE BUTYRATE		(CAS-No.) 9004-36-8	5 – 7	Not classified

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxyphenyl)propionyl-ω-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxy ethylene) a mixture of: alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) / alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxyphenyl)propionyl-ω-hydroxyphenyl)propionyl-ω-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)		0.1 – 0.5	Skin Sens. 1A, H317 Aquatic Chronic 2, H411
reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate		(CAS-No.) 1065336-91-5	< 0.1	Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-phenoxyethanol	2-phenoxyethanol 1-hydroxy-2-phenoxyethane / 2- hydroxyethyl phenyl ether / 2- phenoxyethanol / 2-phenoxyethyl alcohol / AROSOL / beta- hydroxyethyl phenyl ether / beta- phenoxyethanol / beta-phenoxyethyl alcohol / DOWANOL EP / DOWANOL EPH / EGMPE / EMERESSENCE 1160 / EMERY 6705 / ethanol, 2-phenoxy- / ethylene glycol monophenyl ether / ethylene glycol monophenyl ether / ethylene glycol monophenyl ether / monophenylglycol (=2- phenoxyethanol) / phenoxethol / phenoxetol / phenoxyethanol / phenoxyethyl alcohol / phenyl cellosolve / phenylglycol (=2- phenoxyethanol) / phenylmonoglycol ether (=2-phenoxyethanol) / PLASTIAZAN-41 / rose ether	(CAS-No.) 122-99-6	< 0.1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
toluene	toluene ANTISAL 1A / benzene, methyl- / benzyl hydride / CASWELL no 859 / CP 25 / formula No 06500 / methacide / methane, phenyl- / methylbenzene / phenylmethane / reference fuel, toluene / retinaphtha / solvent toluene / solvesso toluene / tol / toluene / toluene chromasolv / toluene pestanal / toluene regen / toluene spectranal / toluene, nitration grade / toluene, pure / toluol oil / toluole / tolu-sol	(CAS-No.) 108-88-3	< 0.1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304

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 after inhalation

: Remove person to fresh air and keep comfortable for breathing.

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First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash 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. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

First-aid measures general : Call a poison center/doctor/physician if you feel unwell.

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

Symptoms/effects : May cause drowsiness or dizziness.

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

Symptoms/effects after eye contact : Eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

5.2. Unsuitable extinguishing media

5.3. Specific hazards arising from the hazardous product

Fire hazard : Extremely flammable aerosol.

Explosion hazard : Pressurized container: may burst if heated.

5.4. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Methods and materials for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

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

6.3. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Keep away

from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid contact with skin and eyes. Avoid breathing

dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product. Wash contaminated clothing before reuse. Contaminated work clothing should not be

allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a well-

ventilated place. Keep cool. Store locked up. Keep container tightly closed.

Storage temperature : < 25 °C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

methyl acetate (79-20-9)			
Canada (Quebec)	VECD (OEL STEL)	757 mg/m³	
Canada (Quebec)	VECD (OEL STEL) [ppm]	250 ppm	
Canada (Quebec)	VEMP (OEL TWA)	606 mg/m³	
Canada (Quebec)	VEMP (OEL TWA) [ppm]	200 ppm	

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methyl acetate (79-20-9)		
Canada (Quebec)	Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Alberta	OEL STEL	757 mg/m³
Alberta	OEL STEL [ppm]	250 ppm
Alberta	OEL TWA	606 mg/m ³
Alberta	OEL TWA [ppm]	200 ppm
Alberta	Regulatory reference	Alberta Regulation 87/2009 (Alberta Regulation 150/2020)
British Columbia	OEL STEL [ppm]	250 ppm
British Columbia	OEL TWA [ppm]	200 ppm
British Columbia	Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Manitoba	OEL STEL [ppm]	250 ppm
Manitoba	OEL TWA [ppm]	200 ppm
Manitoba	Notations and remarks	TLV® Basis: Headache; dizziness; nausea; eye dam (degeneration of ganglion cells in the retina)
Manitoba	Regulatory reference	ACGIH
New Brunswick	OEL STEL [ppm]	250 ppm
New Brunswick	OEL TWA [ppm]	200 ppm
New Brunswick	Notations and remarks	eye & URT irr
Newfoundland & Labrador	OEL STEL [ppm]	250 ppm
Newfoundland & Labrador	OEL TWA [ppm]	• • • • • • • • • • • • • • • • • • • •
		200 ppm
Newfoundland & Labrador	Notations and remarks	TLV® Basis: Headache; dizziness; nausea; eye dam (degeneration of ganglion cells in the retina)
Newfoundland & Labrador	Regulatory reference	ACGIH
Nova Scotia	OEL STEL [ppm]	250 ppm
Nova Scotia	OEL TWA [ppm]	200 ppm
Nova Scotia	Notations and remarks	TLV® Basis: Headache; dizziness; nausea; eye dam (degeneration of ganglion cells in the retina)
Nova Scotia	Regulatory reference	ACGIH
Nunavut	OEL STEL [ppm]	250 ppm
Nunavut	OEL TWA [ppm]	200 ppm
Nunavut	Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016
Northwest Territories	OEL STEL [ppm]	250 ppm
Northwest Territories	OEL TWA [ppm]	200 ppm
Northwest Territories	Regulatory reference	Occupation Health and Safety Regulations R-039- 2015 (R-013-2020)
Ontario	OEL STEL [ppm]	250 ppm
Ontario	OEL TWA [ppm]	200 ppm
Ontario	Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Prince Edward Island	OEL STEL [ppm]	250 ppm
Prince Edward Island	OEL TWA [ppm]	200 ppm
Prince Edward Island	Notations and remarks	TLV® Basis: Headache; dizziness; nausea; eye dam (degeneration of ganglion cells in the retina)
Prince Edward Island	Regulatory reference	ACGIH
Saskatchewan	OEL STEL [ppm]	250 ppm
Saskatchewan	OEL TWA [ppm]	200 ppm
Saskatchewan	Regulatory reference	The Occupational Health and Safety Regulations,
		1996. Chapter O-1.1 Reg 1
2-phenoxyethanol (122-99-		AAA mada:2
Ontario	OEL TWA	141 mg/m³
Ontario	OEL TWA [ppm]	25 ppm

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2-phenoxyethanol (122-99	<u> </u>	
Ontario	Notations and remarks	Skin
Ontario	Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
toluene (108-88-3)		
Canada (Quebec)	VEMP (OEL TWA)	188 mg/m³
Canada (Quebec)	VEMP (OEL TWA) [ppm]	50 ppm
Canada (Quebec)	Notations and remarks	Pc
Canada (Quebec)	Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Alberta	OEL TWA	188 mg/m³
Alberta	OEL TWA [ppm]	50 ppm
Alberta	Notations and remarks	Substance may be readily absorbed through intact skin.
Alberta	Regulatory reference	Alberta Regulation 87/2009 (Alberta Regulation 150/2020)
Manitoba	OEL TWA [ppm]	20 ppm
Manitoba	Notations and remarks	TLV® Basis: CNS, visual & hearing impair; female repro system eff; pregnancy loss. Notations: OTO; A4 (Not classifiable as a Human Carcinogen); BEI
Manitoba	Regulatory reference	ACGIH
Newfoundland & Labrador	OEL TWA [ppm]	20 ppm
Newfoundland & Labrador	Notations and remarks	TLV® Basis: CNS, visual & hearing impair; female repro system eff; pregnancy loss. Notations: OTO; A4 (Not classifiable as a Human Carcinogen); BEI
Newfoundland & Labrador	Regulatory reference	ACGIH
Nova Scotia	OEL TWA [ppm]	20 ppm
Nova Scotia	Notations and remarks	TLV® Basis: CNS, visual & hearing impair; female repro system eff; pregnancy loss. Notations: OTO; A4 (Not classifiable as a Human Carcinogen); BEI
Nova Scotia	Regulatory reference	ACGIH
Nunavut	OEL STEL [ppm]	60 ppm
Nunavut	OEL TWA [ppm]	50 ppm
Nunavut	Notations and remarks	Skin
Nunavut	Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016
Northwest Territories	OEL STEL [ppm]	60 ppm
Northwest Territories	OEL TWA [ppm]	50 ppm
Northwest Territories	Notations and remarks	Skin
Northwest Territories		
	Regulatory reference	Occupation Health and Safety Regulations R-039- 2015 (R-013-2020)
Ontario	OEL TWA [ppm]	20 ppm
Ontario	Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Prince Edward Island	OEL TWA [ppm]	20 ppm
Prince Edward Island	Notations and remarks	TLV® Basis: CNS, visual & hearing impair; female repro system eff; pregnancy loss. Notations: OTO; A4 (Not classifiable as a Human Carcinogen); BEI
Prince Edward Island	Regulatory reference	ACGIH
Saskatchewan	OEL STEL [ppm]	60 ppm
Saskatchewan	OEL TWA [ppm]	50 ppm
Saskatchewan	Notations and remarks	Skin
Saskatchewan	Regulatory reference	The Occupational Health and Safety Regulations, 1996. Chapter O-1.1 Reg 1
ethyl methyl ketone (78-93	-3)	
Canada (Quebec)	VECD (OEL STEL)	300 mg/m³
Canada (Quebec)	VECD (OEL STEL) [ppm]	100 ppm
Canada (Quebec)	VEMP (OEL TWA)	150 mg/m³

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ethyl methyl ketone (78-93-	•	
Canada (Quebec)	VEMP (OEL TWA) [ppm]	50 ppm
Canada (Quebec)	Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Alberta	OEL STEL	885 mg/m³
Alberta	OEL STEL [ppm]	300 ppm
Alberta	OEL TWA	590 mg/m ³
Alberta	OEL TWA [ppm]	200 ppm
Alberta	Regulatory reference	Alberta Regulation 87/2009 (Alberta Regulation 150/2020)
British Columbia	OEL STEL [ppm]	100 ppm
British Columbia	OEL TWA [ppm]	50 ppm
British Columbia	Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Manitoba	OEL STEL [ppm]	300 ppm
Manitoba	OEL TWA [ppm]	200 ppm
Manitoba	Notations and remarks	TLV® Basis: URT irr; CNS & PNS impair. Notations: BEI
Manitoba	Regulatory reference	ACGIH
New Brunswick	OEL STEL [ppm]	300 ppm
New Brunswick	OEL TWA [ppm]	200 ppm
New Brunswick	Notations and remarks	URT irr; CNS & PNS impair
Newfoundland & Labrador	OEL STEL [ppm]	300 ppm
Newfoundland & Labrador	OEL TWA [ppm]	200 ppm
Newfoundland & Labrador	Notations and remarks	TLV® Basis: URT irr; CNS & PNS impair. Notations: BEI
Newfoundland & Labrador	Regulatory reference	ACGIH
Nova Scotia	OEL STEL [ppm]	300 ppm
Nova Scotia	OEL TWA [ppm]	200 ppm
Nova Scotia	Notations and remarks	TLV® Basis: URT irr; CNS & PNS impair. Notations: BEI
Nova Scotia	Regulatory reference	ACGIH
Nunavut	OEL STEL [ppm]	300 ppm
Nunavut	OEL TWA [ppm]	200 ppm
Nunavut	Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016
Northwest Territories	OEL STEL [ppm]	300 ppm
Northwest Territories	OEL TWA [ppm]	200 ppm
Northwest Territories	Regulatory reference	Occupation Health and Safety Regulations R-039- 2015 (R-013-2020)
Ontario	OEL STEL [ppm]	300 ppm
Ontario	OEL TWA [ppm]	200 ppm
Ontario	Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Prince Edward Island	OEL STEL [ppm]	300 ppm
Prince Edward Island	OEL TWA [ppm]	200 ppm
Prince Edward Island	Notations and remarks	TLV® Basis: URT irr; CNS & PNS impair. Notations: BEI
Prince Edward Island	Regulatory reference	ACGIH
Saskatchewan	OEL STEL [ppm]	300 ppm
Saskatchewan	OEL TWA [ppm]	200 ppm
Saskatchewan	Regulatory reference	The Occupational Health and Safety Regulations, 1996. Chapter O-1.1 Reg 1
n-butyl acetate (123-86-4)		<u> </u>
Canada (Quebec)	VECD (OEL STEL) [ppm]	150 ppm

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n-butyl acetate (123-86-4)	VEND (OF TWA)	50
Canada (Quebec)	VEMP (OEL TWA) [ppm]	50 ppm
Canada (Quebec)	Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Alberta	OEL STEL	950 mg/m³
Alberta	OEL STEL [ppm]	200 ppm
Alberta	OEL TWA	713 mg/m³
Alberta	OEL TWA [ppm]	150 ppm
Alberta	Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Alberta	Regulatory reference	Alberta Regulation 87/2009 (Alberta Regulation 150/2020)
British Columbia	OEL STEL [ppm]	150 ppm
British Columbia	OEL TWA [ppm]	50 ppm
British Columbia	Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Manitoba	OEL STEL [ppm]	150 ppm
Manitoba	OEL TWA [ppm]	50 ppm
Manitoba	Notations and remarks	TLV® Basis: Eye & URT irr
Manitoba	Regulatory reference	ACGIH
Newfoundland & Labrador	OEL STEL [ppm]	150 ppm
Newfoundland & Labrador	OEL TWA [ppm]	50 ppm
Newfoundland & Labrador	Notations and remarks	TLV® Basis: Eye & URT irr
Newfoundland & Labrador	Regulatory reference	ACGIH
Nova Scotia	OEL STEL [ppm]	150 ppm
Nova Scotia	OEL TWA [ppm]	50 ppm
Nova Scotia	Notations and remarks	TLV® Basis: Eye & URT irr
Nova Scotia	Regulatory reference	ACGIH
Nunavut	OEL STEL [ppm]	200 ppm
Nunavut	OEL TWA [ppm]	150 ppm
Nunavut	Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016
Northwest Territories	OEL STEL [ppm]	200 ppm
Northwest Territories	OEL TWA [ppm]	150 ppm
Northwest Territories	Regulatory reference	Occupation Health and Safety Regulations R-039- 2015 (R-013-2020)
Ontario	OEL STEL [ppm]	200 ppm
Ontario	OEL TWA [ppm]	150 ppm
Ontario	Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Prince Edward Island	OEL STEL [ppm]	150 ppm
Prince Edward Island	OEL TWA [ppm]	50 ppm
Prince Edward Island	Notations and remarks	TLV® Basis: Eye & URT irr
Prince Edward Island	Regulatory reference	ACGIH
Saskatchewan	OEL STEL [ppm]	200 ppm
Saskatchewan	OEL TWA [ppm]	150 ppm
Saskatchewan	Regulatory reference	The Occupational Health and Safety Regulations, 1996. Chapter O-1.1 Reg 1
dimethyl ether (115-10-6)		
British Columbia	OEL TWA [ppm]	1000 ppm
British Columbia	Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)

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cyclohexanone (108-94-1)		
Canada (Quebec)	VEMP (OEL TWA)	100 mg/m³
Canada (Quebec)	VEMP (OEL TWA) [ppm]	25 ppm
Canada (Quebec)	Notations and remarks	Pc
Canada (Quebec)	Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Alberta	OEL STEL	200 mg/m³
Alberta	OEL STEL [ppm]	50 ppm
Alberta	OEL TWA	80 mg/m³
Alberta	OEL TWA [ppm]	20 ppm
Alberta	Notations and remarks	Substance may be readily absorbed through intact skin.
Alberta	Regulatory reference	Alberta Regulation 87/2009 (Alberta Regulation 150/2020)
British Columbia	OEL STEL [ppm]	50 ppm
British Columbia	OEL TWA [ppm]	20 ppm
British Columbia	Notations and remarks	Skin
British Columbia	Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Manitoba	OEL STEL [ppm]	50 ppm
Manitoba	OEL TWA [ppm]	20 ppm
Manitoba	Notations and remarks	TLV® Basis: Eye & URT irr. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Manitoba	Regulatory reference	ACGIH
Newfoundland & Labrador	OEL STEL [ppm]	50 ppm
Newfoundland & Labrador	OEL TWA [ppm]	20 ppm
Newfoundland & Labrador	Notations and remarks	TLV® Basis: Eye & URT irr. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown
Newfoundland & Labrador	Regulatory reference	Relevance to Humans) ACGIH
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Nova Scotia	OEL STEL [ppm]	50 ppm
Nova Scotia	OEL TWA [ppm]	20 ppm
Nova Scotia	Notations and remarks	TLV® Basis: Eye & URT irr. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Nova Scotia	Regulatory reference	ACGIH
Nunavut	OEL STEL [ppm]	50 ppm
Nunavut	OEL TWA [ppm]	20 ppm
		''
Nunavut Nunavut	Notations and remarks Regulatory reference	Skin Occupational Health and Safety Regulations, Nu Reg 003-2016
Northwest Territories	OEL STEL [ppm]	50 ppm
Northwest Territories		
	OEL TWA [ppm]	20 ppm
Northwest Territories	Notations and remarks	Skin
Northwest Territories	Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-013-2020)
Ontario	OEL STEL [ppm]	50 ppm
Ontario	OEL TWA [ppm]	20 ppm
Ontario	Notations and remarks	Skin
Ontario	Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Prince Edward Island	OEL STEL [ppm]	50 ppm
Prince Edward Island	OEL TWA [ppm]	20 ppm
Prince Edward Island	Notations and remarks	TLV® Basis: Eye & URT irr. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)

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cyclohexanone (108-94-1)		
Prince Edward Island	Regulatory reference	ACGIH
Saskatchewan	OEL STEL [ppm]	50 ppm
Saskatchewan	OEL TWA [ppm]	20 ppm
Saskatchewan	Notations and remarks	Skin
Saskatchewan	Regulatory reference	The Occupational Health and Safety Regulations, 1996. Chapter O-1.1 Reg 1
Xylene (1330-20-7)		
Canada (Quebec)	VECD (OEL STEL)	651 mg/m³
Canada (Quebec)	VECD (OEL STEL) [ppm]	150 ppm
Canada (Quebec)	VEMP (OEL TWA)	434 mg/m³
Canada (Quebec)	VEMP (OEL TWA) [ppm]	100 ppm
Canada (Quebec)	Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Alberta	OEL STEL	651 mg/m³
Alberta	OEL STEL [ppm]	150 ppm
Alberta Alberta	OEL TWA OEL TWA [ppm]	434 mg/m³ 100 ppm
Alberta	Regulatory reference	Alberta Regulation 87/2009 (Alberta Regulation
		150/2020)
British Columbia	OEL STEL [ppm]	150 ppm
British Columbia	OEL TWA [ppm]	100 ppm
British Columbia	Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Manitoba	OEL STEL [ppm]	150 ppm
Manitoba	OEL TWA [ppm]	100 ppm
Manitoba	Notations and remarks	TLV® Basis: URT & eye irr; CNS impair. Notations: A (Not classifiable as a Human Carcinogen); BEI
Manitoba	Regulatory reference	ACGIH
New Brunswick	OEL STEL [ppm]	150 ppm
New Brunswick	OEL TWA [ppm]	100 ppm
New Brunswick	Notations and remarks	URT & eye irr; CNS impair
Newfoundland & Labrador	OEL STEL [ppm]	150 ppm
Newfoundland & Labrador	OEL TWA [ppm]	100 ppm
Newfoundland & Labrador	Notations and remarks	TLV® Basis: URT & eye irr; CNS impair. Notations: A (Not classifiable as a Human Carcinogen); BEI
Newfoundland & Labrador	Regulatory reference	ACGIH
Nova Scotia	OEL STEL [ppm]	150 ppm
Nova Scotia	OEL TWA [ppm]	100 ppm
Nova Scotia	Notations and remarks	TLV® Basis: URT & eye irr; CNS impair. Notations: A
Nova Scotia	Regulatory reference	(Not classifiable as a Human Carcinogen); BEI ACGIH
Nunavut	OEL STEL [ppm]	150 ppm
Nunavut	OEL TWA [ppm]	100 ppm
Nunavut	Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016
Northwest Territories	OEL STEL [ppm]	150 ppm
Northwest Territories	OEL TWA [ppm]	100 ppm
Northwest Territories	Regulatory reference	Occupation Health and Safety Regulations R-039- 2015 (R-013-2020)
Ontario	OEL STEL [ppm]	150 ppm
Ontario	OEL TWA [ppm]	100 ppm
Ontario	Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Prince Edward Island	OEL STEL [ppm]	150 ppm

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Xylene (1330-20-7)		
Prince Edward Island	OEL TWA [ppm]	100 ppm
Prince Edward Island	Notations and remarks	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Prince Edward Island	Regulatory reference	ACGIH
Saskatchewan	OEL STEL [ppm]	150 ppm
Saskatchewan	OEL TWA [ppm]	100 ppm
Saskatchewan	Regulatory reference	The Occupational Health and Safety Regulations, 1996. Chapter O-1.1 Reg 1
ethylbenzene (100-41-4)		
Canada (Quebec)	VEMP (OEL TWA) [ppm]	20 ppm
Canada (Quebec)	Notations and remarks	C3
Canada (Quebec)	Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Alberta	OEL STEL	543 mg/m³
Alberta	OEL STEL [ppm]	125 ppm
Alberta	OEL TWA	434 mg/m³
Alberta	OEL TWA [ppm]	100 ppm
Alberta	Regulatory reference	Alberta Regulation 87/2009 (Alberta Regulation 150/2020)
British Columbia	OEL TWA [ppm]	20 ppm
British Columbia	Notations and remarks	IARC group 2B carcinogen
British Columbia	Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Manitoba	OEL TWA [ppm]	20 ppm
Manitoba	Notations and remarks	TLV® Basis: URT irr; kidney dam (nephropathy); cochlear impair. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BE
Manitoba	Regulatory reference	ACGIH
Newfoundland & Labrador	OEL TWA [ppm]	20 ppm
Newfoundland & Labrador	Notations and remarks	TLV® Basis: URT irr; kidney dam (nephropathy); cochlear impair. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BE
Newfoundland & Labrador	Regulatory reference	ACGIH
Nova Scotia	OEL TWA [ppm]	20 ppm
Nova Scotia	Notations and remarks	TLV® Basis: URT irr; kidney dam (nephropathy); cochlear impair. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BE
Nova Scotia	Regulatory reference	ACGIH
Nunavut	OEL STEL [ppm]	125 ppm
Nunavut	OEL TWA [ppm]	100 ppm
Nunavut	Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016
Northwest Territories	OEL STEL [ppm]	125 ppm
Northwest Territories	OEL TWA [ppm]	100 ppm
Northwest Territories	Notations and remarks	Designated substance
Northwest Territories	Regulatory reference	Occupation Health and Safety Regulations R-039-
Ontario	OEL TWA Incm1	2015 (R-013-2020)
Ontario Ontario	OEL TWA [ppm] Regulatory reference	20 ppm Ontario Occuational Exposure Limits under Regulation
	,	833
Prince Edward Island	OEL TWA [ppm]	20 ppm
Prince Edward Island	Notations and remarks	TLV® Basis: URT irr; kidney dam (nephropathy); cochlear impair. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BE
Prince Edward Island	Regulatory reference	ACGIH
Saskatchewan	OEL STEL [ppm]	125 ppm

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ethylbenzene (100-41-4)			
Saskatchewan	OEL TWA [ppm]	100 ppm	
Saskatchewan	Notations and remarks	Designated Chemical Substance	
Saskatchewan	Regulatory reference	The Occupational Health and Safety Regulations, 1996. Chapter O-1.1 Reg 1	

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Appearance : aerosol. Color : Colorless Odor characteristic Odor threshold No data available pΗ : No data available : No data available Relative evaporation rate (butyl acetate=1) : No data available Relative evaporation rate (ether=1) Melting point : No data available Freezing point : No data available : No data available Boiling point

Flash point : -41 °C

Auto-ignition temperature : No data available Decomposition temperature : No data available

Flammability (solid, gas) : Extremely flammable aerosol

Vapor pressure : No data available
Vapor pressure at 50 °C : No data available
Relative density : No data available
Density : 0.931 g/cm³
Solubility : No data available
Partition coefficient n-octanol/water (Log Pow) : No data available

Explosive properties : Pressurized container: may burst if heated.

Explosion limits : No data available

9.2. Other information

 As Packaged Regulatory VOC
 : 772 g/l (6.4 lb/gal)

 As Packaged Actual VOC
 : 708 g/l (5.9 lb/gal)

 As Applied Regulatory VOC
 : 772 g/l (6.4 lb/gal)

 As Applied Actual VOC
 : 708 g/l (5.9 lb/gal)

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 Water Content
 0 wt%

 Volatiles
 : 84.4 wt%

 % EPA HAPS
 : 13.4 wt%

 Percent Solids
 : 15.61 wt%

SECTION 10: Stability and reactivity

10.1. Reactivity

ATE CA (dust, mist)

Reactivity : Extremely flammable aerosol. Pressurized container: may burst if heated.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use.

Conditions to avoid : Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

SECTION 11: Toxicological information

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

Unknown acute toxicity (GHS CA) 9.81% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapors))

CELLULOSE ACETATE BUTYRATE (9004-36-8)	
LD50 oral rat	> 3200 mg/kg
LD50 dermal	> 1000 mg/kg (Guinea pig)

methyl acetate (79-20-9)		
LD50 oral rat	6482 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)	
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
LC50 Inhalation - Rat	49 mg/l	
ATE CA (oral)	6482 mg/kg body weight	
ATE CA (vapors)	49 mg/l/4h	
ATE CA (dust,mist)	49 mg/l/4h	

2-phenoxyethanol (122-99-6)		
LD50 oral rat	1850 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))	
LD50 dermal rat	14391 mg/kg body weight Animal: rat	
LD50 dermal rabbit	> 2214 mg/kg body weight Animal: rabbit, Guideline: other:Draft IRLG (Interagency Regulatory Liaison Group) Guidelines for Selected Acute Toxicity Tests (August. 1979)	
LC50 Inhalation - Rat	> 1 mg/l air Animal: rat, Guideline: other:OECD 412	
ATE CA (oral)	1850 mg/kg body weight	
ATE CA (Dermal)	14391 mg/kg body weight	

toluene (108-88-3)		
LD50 oral rat	5580 mg/kg body weight Animal: rat, Animal sex: male, Guideline: EU Method B.1 (Acute Toxicity (Oral)), 95% CL: 5300 - 5910	
LD50 dermal rabbit	> 5000 mg/kg body weight Animal: rabbit, Animal sex: male, 95% CL: 9,63 - 20,77	
LC50 Inhalation - Rat	25.7 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male, Experimental value, Inhalation (vapours))	
LC50 Inhalation - Rat (Vapours)	25.7 mg/l/4h (Equivalent or similar to OECD 403, 4 h, Rat, Male, Experimental value, Inhalation (vapours))	
ATE CA (oral)	5580 mg/kg body weight	
ATE CA (vapors)	25.7 mg/l/4h	

reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)		
LD50 oral rat	> 5000 mg/kg (OECD Guideline No. 401 (equivalent to Annex V), limit test, rat, male/female)	
LD50 dermal rat	> 2000 mg/kg (OECD Guideline No. 402 (equivalent to Annex V), limit test, rat, male/femal	
LC50 Inhalation - Rat	5800 mg/l (OECD Guideline 403, 14d, rat)	
ATE CA (vapors) 5800 mg/l/4h		

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5800 mg/l/4h

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reaction mass of bis(1,2,2,6,6-pentamethyl-	1-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5)
LD50 oral rat	3230 mg/kg (OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), rat, male/female)
LD50 dermal rat	> 3170 mg/kg (OECD Guideline 402 (Acute Dermal Toxicity), read-across,
ATE CA (oral)	3230 mg/kg body weight
ethyl methyl ketone (78-93-3)	
LD50 oral rat	2193 mg/kg body weight (Equivalent or similar to OECD 423, Rat, Male / female, Experimenta value, Oral, 14 day(s))
LD50 dermal rabbit	> 10 ml/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))
ATE CA (oral)	2193 mg/kg body weight
n-butyl acetate (123-86-4)	
LD50 oral rat	10760 – 12789 mg/kg body weight (Equivalent or similar to OECD 423, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 14112 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	23.4 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Inhalation (mixture of vapour and aerosol), 14 day(s))
LC50 Inhalation - Rat [ppm]	390 ppm/4h
LC50 Inhalation - Rat (Vapours)	> 21 mg/l/4h (4 h, OECD Test Guideline 403, rat, vapours)
ATE CA (oral)	10760 mg/kg body weight
ATE CA (Gases (except aerosol dispensers and lighters))	390 ppmV/4h
ATE CA (vapors)	23.4 mg/l/4h
ATE CA (dust,mist)	23.4 mg/l/4h
dimethyl ether (115-10-6)	
LC50 Inhalation - Rat [ppm]	164000 ppm Animal: rat, Animal sex: male, 95% CL: 142000 - 203000
ATE CA (vapors)	309 mg/l/4h
ATE CA (dust,mist)	309 mg/l/4h
cyclohexanone (108-94-1)	
LD50 oral rat	1890 – 2650 mg/kg body weight (BASF test, Rat, Experimental value, Oral, 7 day(s))
LD50 oral	1620 mg/kg
LD50 dermal rabbit	1100 mg/kg (BRENNTAG test)
LC50 Inhalation - Rat	> 6.2 mg/l air Animal: rat
LC50 Inhalation - Rat (Vapours)	8000 mg/l/4h
ATE CA (oral)	1890 mg/kg body weight
ATE CA (Dermal)	1100 mg/kg body weight
ATE CA (Gases (except aerosol dispensers and lighters))	4500 ppmV/4h
ATE CA (vapors)	11 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
2-phenoxyethanol (122-99-6)	
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2-phenoxyethanol (122-99-6)	
LOAEL (animal/male, F1)	≈ 1875 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: other:Reproductive Assessment by Continuous Breeding (RACB); protocol devised by the NTP
LOAEL (animal/female, F1)	≈ 1875 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: other:Reproductive Assessment by Continuous Breeding (RACB); protocol devised by the NTP
NOAEL (animal/female, F0/P)	≈ 1875 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: other:Reproductive Assessment by Continuous Breeding (RACB); protocol devised by the NTP

STOT-single exposure : May cause drowsiness or dizziness.

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methyl acetate (79-20-9)		
STOT-single exposure May cause drowsiness or dizziness.		
toluene (108-88-3)		
STOT-single exposure May cause drowsiness or dizziness.		
ethyl methyl ketone (78-93-3)		
STOT-single exposure May cause drowsiness or dizziness.		
n-butyl acetate (123-86-4)		
STOT-single exposure	May cause drowsiness or dizziness.	
	: Not classified	

STOT-repeated exposure

methyl acetate (79-20-9)		
LOAEC (inhalation,rat,vapor,90 days)	2000 mg/l	
NOAEC (inhalation,rat,vapor,90 days)	1057 mg/m³	
2-phenoxyethanol (122-99-6)		
LOAEL (oral,rat,90 days)	> 700 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)	
LOAEL (dermal,rat/rabbit,90 days)	> 500 mg/kg body weight Animal: rabbit	
NOAEL (oral,rat,90 days)	700 mg/kg bodyweight/day	
NOAEL (dermal,rat/rabbit,90 days)	500 mg/kg body weight Animal: rabbit	
NOAEC (inhalation,rat,dust/mist/fume,90 days)	0.0482 mg/l/6h/day	
toluene (108-88-3)		
LOAEL (oral,rat,90 days)	1250 mg/kg body weight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
NOAEL (oral,rat,90 days)	625 mg/kg body weight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
NOAEC (inhalation,rat,vapor,90 days)	2.355 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
cyclohexanone (108-94-1)		
NOAEL (oral,rat,90 days)	143 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)	

Aspiration hazard :	No	t classified
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CLEAR #1 UV RESISTANT CLEARCOAT AEROSOL	
Vaporizer aerosol	
Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.

SECTION 12: Ecological information

12.1.	Toxicity	

Symptoms/effects after eye contact

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-

term (acute)

: Not classified

: Eye irritation.

Hazardous to the aquatic environment, long-

: Not classified

term (chronic)

methyl acetate (79-20-9)	
LC50 - Fish [1]	250 – 350 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	1026.7 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 120 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
BCF - Fish [1]	< 1 (Pisces, Literature study)
Partition coefficient n-octanol/water (Log Pow)	0.18 (Experimental value, 20 °C)

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EC50 - Crustacea [1]

EC50 96h - Algae [1]

according to the Hazardous Products Regulation (February 11, 2015)

ccording to the Hazardous Products Regulation (February	11, 2010)
methyl acetate (79-20-9)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.18 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
2-phenoxyethanol (122-99-6)	
LC50 - Fish [1]	344 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	> 500 mg/l Test organisms (species): Daphnia magna
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
Partition coefficient n-octanol/water (Log Pow)	1.2 (Experimental value, EU Method A.8: Partition Coefficient, 23 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.6 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
toluene (108-88-3)	
LC50 - Fish [1]	5.5 mg/l Test organisms (species): Oncorhynchus kisutch
NOEC chronic fish	1.39 mg/l Test organisms (species): Oncorhynchus kisutch Duration: '40 d'
NOEC (chronic)	0.74 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
BCF - Fish [1]	90 (72 h, Leuciscus idus, Static system, Fresh water, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	2.73 (Experimental value, 20 °C)
LOEC (chronic)	2.76 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
	-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H- yl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- e)
LC50 - Fish [1]	2.8 mg/l (96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	4 mg/l (48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)
ErC50 algae	> 100 mg/l (72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)
BCF - Fish [1]	2658 – 3430 (502 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	4.6 (Experimental value, Equivalent or similar to OECD 117, 25 °C)
ethyl methyl ketone (78-93-3)	
LC50 - Fish [1]	2993 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	308 mg/l Test organisms (species): Daphnia magna
ErC50 algae	1972 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)
EC50 72h - Algae [1]	1972 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	2029 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
Partition coefficient n-octanol/water (Log Pow)	0.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 40 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.654 – 1.281 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
n-butyl acetate (123-86-4)	
LC50 - Fish [1]	18 mg/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	62 mg/l (Leuciscus idus, static system)
EC50 - Crustacea [1]	44 mg/l Test organisms (species): Daphnia sp.
ErC50 algae	397 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, GLP)
NOEC (chronic)	23 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic crustacea	23 mg/l
Partition coefficient n-octanol/water (Log Pow)	2.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.268 – 1.844 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
dimethyl ether (115-10-6)	
LC50 - Fish [1]	> 4.1 g/l Test organisms (species): Poecilia reticulata
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> 4.4 g/l Test organisms (species): Daphnia magna

154.917 mg/l Test organisms (species): other:green algae

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dimethyl ether (115-10-6)			
Partition coefficient n-octanol/water (Log Pow)	0.1 (Experimental value)		
cyclohexanone (108-94-1)	·		
LC50 - Fish [1]	527 – 732 mg/l Test organisms (species): Pimephales promelas		
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna		
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)		
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)		
Partition coefficient n-octanol/water (Log Pow)	0.86 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.18 (log Koc, SRC PCKOCWIN v1.66, Calculated value)		
12.2. Persistence and degradability			
methyl acetate (79-20-9)			
Persistence and degradability	Readily biodegradable in water.		
2-phenoxyethanol (122-99-6)			
Persistence and degradability	Readily biodegradable in water.		
toluene (108-88-3)	, ,		
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.		
Biochemical oxygen demand (BOD)	2.15 g O₂/g substance		
Chemical oxygen demand (COD)			
, , ,	2.52 g O₂/g substance		
ThOD	3.13 g O₂/g substance		
BOD (% of ThOD)	0.69		
ethyl methyl ketone (78-93-3)			
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.		
Biochemical oxygen demand (BOD)	2.03 g O₂/g substance		
Chemical oxygen demand (COD)	2.31 g O₂/g substance		
ThOD	2.44 g O₂/g substance		
n-butyl acetate (123-86-4)			
Persistence and degradability	Readily biodegradable in water.		
ThOD	2.21 g O₂/g substance		
BOD (% of ThOD)	0.46		
dimethyl ether (115-10-6)	0.10		
Persistence and degradability	Non degradable in the soil. Not readily biodegradable in water.		
<u> </u>	Their degradable in the soil. Not readily blodegradable in water.		
cyclohexanone (108-94-1) Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.		
Biochemical oxygen demand (BOD)	1.232 g O ₂ /g substance		
Chemical oxygen demand (COD)			
ThOD	2.605 g O ₂ /g substance		
12.3. Bioaccumulative potential	2.605 g O₂/g substance		
methyl acetate (79-20-9)			
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).		
BCF - Fish [1]	<1 (Pisces, Literature study)		
Partition coefficient n-octanol/water (Log Pow)	0.18 (Experimental value, 20 °C)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.18 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)		
2-phenoxyethanol (122-99-6)			
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).		
Partition coefficient n-octanol/water (Log Pow)	1.2 (Experimental value, EU Method A.8: Partition Coefficient, 23 °C)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.6 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)		

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benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-

value)

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toluene (108-88-3) Bioaccumulative potential

BCF - Fish [1]

BCF - Fish [1]

according to the Hazardous Products Regulation (February 11, 2015)

Partition coefficient n-octanol/water (Log Pow)

hydroxyphenyl)propionyloxypoly(oxyethylene)

	value)	
Partition coefficient n-octanol/water (Log Pow)	4.6 (Experimental value, Equivalent or similar to OECD 117, 25 °C)	
ethyl methyl ketone (78-93-3)		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Partition coefficient n-octanol/water (Log Pow)	0.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 40	
, ,	°C) ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.654 – 1.281 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
n-butyl acetate (123-86-4)		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Partition coefficient n-octanol/water (Log Pow)	2.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.268 – 1.844 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
dimethyl ether (115-10-6)		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Partition coefficient n-octanol/water (Log Pow)	0.1 (Experimental value)	
cyclohexanone (108-94-1)		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Partition coefficient n-octanol/water (Log Pow)	0.86 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.18 (log Koc, SRC PCKOCWIN v1.66, Calculated value)	
12.4. Mobility in soil		
methyl acetate (79-20-9)		
Surface tension	24 mN/m (20 °C)	
Ecology - soil	Highly mobile in soil.	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.18 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental val GLP)	
Partition coefficient n-octanol/water (Log Pow)	0.18 (Experimental value, 20 °C)	
2-phenoxyethanol (122-99-6)		
Surface tension	70.7 mN/m (20 °C, 1 g/l, EU Method A.5: Surface tension)	
Ecology - soil	Highly mobile in soil.	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.6 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value GLP)	
Partition coefficient n-octanol/water (Log Pow)	1.2 (Experimental value, EU Method A.8: Partition Coefficient, 23 °C)	
toluene (108-88-3)		
Surface tension	27.73 N/m (25 °C)	
Ecology - soil	Low potential for adsorption in soil.	
Partition coefficient n-octanol/water (Log Pow)	2.73 (Experimental value, 20 °C)	
benzotriazol-2-yl)-5-tert-butyl-4-hydroxypheny hydroxyphenyl)propionyloxypoly(oxyethylene		
Partition coefficient n-octanol/water (Log Pow)	4.6 (Experimental value, Equivalent or similar to OECD 117, 25 °C)	
ethyl methyl ketone (78-93-3)		
Surface tension	No data available in the literature	
Ecology - soil	Highly mobile in soil. Slightly harmful to plants.	
_00.09) 00	0.654 – 1.281 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.201 (log 1.00; 01.01 01.001111 12.0; odiodiatod 14.40)	

Low potential for bioaccumulation (BCF < 500).

2.73 (Experimental value, 20 °C) reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene)

90 (72 h, Leuciscus idus, Static system, Fresh water, Experimental value)

2658 – 3430 (502 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental

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according to the Hazardous Products Regulation (February 11, 2015)

n-butyl acetate (123-86-4)			
Surface tension	61.3 mN/m (20 °C, 0.1 %, OECD 115: Surface Tension of Aqueous Solutions)		
Ecology - soil	Highly mobile in soil.		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.268 – 1.844 (log Koc, SRC PCKOCWIN v2.0, Calculated value)		
Partition coefficient n-octanol/water (Log Pow)	2.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)		
dimethyl ether (115-10-6)			
Surface tension	No data available in the literature		
Ecology - soil	Not applicable (gas).		
Partition coefficient n-octanol/water (Log Pow)	0.1 (Experimental value)		
cyclohexanone (108-94-1)			
Surface tension	No data available in the literature		
Ecology - soil	Highly mobile in soil.		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.18 (log Koc, SRC PCKOCWIN v1.66, Calculated value)		
Partition coefficient n-octanol/water (Log Pow)	0.86 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)		

12.5. Other adverse effects

: Not classified Ozone

SECTION 13: Disposal considerations

Disposal methods

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

SECTION 14: Transport information

Basic shipping description

In accordance with TDG

Transportation of Dangerous Goods

UN-No. (TDG) : UN1950

TDG Primary Hazard Classes : 2.1 - Class 2.1 - Flammable Gas : UN1950 AEROSOLS (flammable), 2.1 Transport document description (TDG)

Proper Shipping Name (TDG) **AEROSOLS** flammable

Hazard labels (TDG) : 2.1 - Flammable gases



: 80 - Despite section 1.17 of Part 1 (Coming into Force, Repeal, Interpretation, General **TDG Special Provisions**

Provisions and Special Cases), a person must not offer for transport or transport these dangerous goods unless they are in a means of containment that is in compliance with the

requirements for transporting gases in Part 5 (Means of Containment).

107 - (1) These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to the handling,

offering for transport or transporting of UN1950, AEROSOLS, and UN2037, GAS

CARTRIDGES, that contain dangerous goods included in Class 2.1 or Class 2.2 and that are transported on a road vehicle, a railway vehicle or a vessel on a domestic voyage, if the

aerosols or gas cartridges have a capacity less than or equal to 50 mL.

(2) Subsection (1) does not apply to self-defence spray.

Explosive Limit and Limited Quantity Index : 1 L Excepted quantities (TDG) : E0 Passenger Carrying Road Vehicle or Passenger : 75 L

Carrying Railway Vehicle Index

Transport information/DOT

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according to the Hazardous Products Regulation (February 11, 2015)

Department of Transport

DOT NA No : UN1950 UN-No.(DOT) : 1950

Transport document description (DOT) : UN1950 Aerosols (flammable), 2.1

Proper Shipping Name (DOT) : Aerosols

flammable

Contains Statement Field Selection (DOT)

Class (DOT) : 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115

Division (DOT)

Hazard labels (DOT) : 2.1 - Flammable gas



Marine pollutant : NO Dangerous for the environment : No

DOT Special Provisions (49 CFR 172.102) : N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.

DOT Packaging Exceptions (49 CFR 173.xxx) : 306 DOT Packaging Non Bulk (49 CFR 173.xxx) : None DOT Packaging Bulk (49 CFR 173.xxx) : None DOT Quantity Limitations Passenger aircraft/rail : 75 kg (49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 150 kg

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

25 - Protected from sources of heat,87 - Stow "separated from" Class 1 (explosives) except **DOT Vessel Stowage Other**

Division 14,126 - Segregation same as for Class 9, miscellaneous hazardous materials

Emergency Response Guide (ERG) Number

Other information : No supplementary information available.

14.3. Air and sea transport

IMDG

UN-No. (IMDG) : 1950 : AEROSOLS Proper Shipping Name (IMDG)

Transport document description (IMDG) : UN 1950 AEROSOLS, 2.1

Class (IMDG) : 2 - Gases

IATA

UN-No. (IATA) : 1950

Proper Shipping Name (IATA) : Aerosols, flammable

: UN 1950 Aerosols, flammable, 2.1 Transport document description (IATA)

Class (IATA) : 2 - Gases

SECTION 15: Regulatory information

15.1. National regulations

CELLULOSE ACETATE BUTYRATE (9004-36-8)

Listed on the Canadian DSL (Domestic Substances List)

methyl acetate (79-20-9)

Listed on the Canadian DSL (Domestic Substances List)

2-phenoxyethanol (122-99-6)

Listed on the Canadian DSL (Domestic Substances List)

toluene (108-88-3)

Listed on the Canadian DSL (Domestic Substances List)

ethyl methyl ketone (78-93-3)

Listed on the Canadian DSL (Domestic Substances List)

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n-butyl acetate (123-86-4)

Listed on the Canadian DSL (Domestic Substances List)

dimethyl ether (115-10-6)

Listed on the Canadian DSL (Domestic Substances List)

cyclohexanone (108-94-1)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

CELLULOSE ACETATE BUTYRATE (9004-36-8)

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

methyl acetate (79-20-9)

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

2-phenoxyethanol (122-99-6)

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

toluene (108-88-3)

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

ethyl methyl ketone (78-93-3)

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

n-butyl acetate (123-86-4)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

dimethyl ether (115-10-6)

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

cyclohexanone (108-94-1)

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

SECTION 16: Other information

 SDS Major/Minor
 : None

 Issue date
 : 10/18/2017

 Revision date
 : 08/29/2019

 Supersedes
 : 08/13/2019

Indication of changes:

Section	Changed item	Change	Comments
	Supersedes	Added	
	Revision date	Added	
	Precautionary statements (GHS CA)	Modified	

Full text of H-phrases:

H220	Extremely flammable gas
H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H280	Contains gas under pressure; may explode if heated
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
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

SDS Canada U-POL

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Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

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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