



RAPTOR BLACK LINER

Safety Data Sheet

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

DRIVING SURFACE PERFECTION

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Version: 1.1

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Trade name : RAPTOR BLACK LINER
Type of product : Coating
UP Number : UP4838, UP8425, UP8430
Product group : Coating
Other means of identification : Component of: UP8405

1.2. Recommended use and restrictions on use

Recommended use : Coating

1.3. Supplier

Distributor

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 liquids Category 2	H225
Serious eye damage/eye irritation Category 2	H319
Skin sensitization, Category 1	H317
Carcinogenicity Category 2	H351
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
Specific target organ toxicity (repeated exposure) Category 2	H373

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) : H225 - Highly flammable liquid and vapor
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H351 - Suspected of causing cancer
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS CA) : P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
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.
P260 - Do not breathe fume, spray, vapors.
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 face protection, protective clothing, protective gloves.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

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Rinse skin with water .
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P314 - Get medical advice/attention if you feel unwell.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P363 - Wash contaminated clothing before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
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)

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
acetone	acetone 2-propanon / 2-propanone / acetone / acetone NF / acetone oil / A13-01238 / Caswell No.004 / chevron acetone / dimethyl formaldehyde / dimethyl ketone / dimethylketal / Dimethylketon / DMK (=dimethyl ketone) / FEMA No 3326 / ketone propane / KTI acetone / methyl acetyl / methylketon / propan-2-one / propanone / pyroacetic acid / pyroacetic ether / pyroacetic spirit / STEC 4908105	(CAS-No.) 67-64-1	15 – 30	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
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 – 30	Flam. Liq. 3, H226 STOT SE 3, H336

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
kieselguhr, soda ash flux calcined	ACID WASHED HYFLO / AQUA-CEL / AQUA-CEL CELITE / C100 / C110 / C219 / C224 / C226 / C233 / C234 / C235 / C237 / C239 / C241 / C251 / C26.31.D / C263 / C264 / C269 / C273 / C281 / C319 / C320 / C375 / C388 / C427 / C455 / C460 / C499 / C501 / C503 / C503RV / C522 / C535 / C538 / C542 / C545 / C546 / C552 / C555 / C560 / C566 / C572 / C578 / C579 / C580 / C581 / C582 / C585 / C591 / C592 / CELATOM / CELATOM FW-10 / CELATOM FW-12 / CELATOM FW-14 / CELATOM FW-14, filter agent / CELATOM FW-18 / CELATOM FW-20 / CELATOM FW-40 / CELATOM FW-50 / CELATOM FW-50, filter agent / CELATOM FW-60 / CELATOM FW-60, filter agent / CELATOM FW-70 / CELATOM FW-80 / CELATOM FW-80, filter agent / CELITE (calcined) / CELITE 100 / CELITE 110 / CELITE 129 / CELITE 201 / CELITE 202 / CELITE 219 / CELITE 224 / CELITE 234 / CELITE 235 / CELITE 238 / CELITE 239 / CELITE 241 / CELITE 251 / CELITE 263 / CELITE 263D / CELITE 263LD / CELITE 264 / CELITE 269 / CELITE 270 / CELITE 271 / CELITE 273 / CELITE 275 / CELITE 281 / CELITE 281SS / CELITE 282 / CELITE 315 / CELITE 319 / CELITE 320 / CELITE 350 / CELITE 370 / CELITE 375 / CELITE 379 / CELITE 388 / CELITE 392 / CELITE 400 / CELITE 427 / CELITE 436 / CELITE 455 / CELITE 460 / CELITE 499 / CELITE 501 / CELITE 503 / CELITE 507 / CELITE 512 / CELITE 513 / CELITE 521 / CELITE 521, filter agent / CELITE 522 / CELITE 535 / CELITE 538 / CELITE 542 / CELITE 545 / CELITE 545AW / CELITE 546 / CELITE 552 / CELITE 555 / CELITE 560 / CELITE 566 / CELITE 572 / CELITE 577 / CELITE 578 / CELITE 579 / CELITE 580 / CELITE 581 / CELITE 582 / CELITE 585 / CELITE 591 / CELITE 592 / CELITE 599 / celite acid treated filter aids / CELITE AFA / CELITE, filter agent / celite-acid washed / CHSC / CLARCEL / CP-100 / diatomaceous earth, flux-calcined / diatomaceous earth, flux-calcined, acid washed / diatomaceous FW 805 / DICALITE 2500 / DICALITE 341 / DICALITE 375 / DICALITE 4200 / DICALITE 4500 / DICALITE 5000 / DICALITE 6000 / DICALITE 7000 / filter agent, CELATOM FW-14 / filter agent, CELATOM FW-50 / filter agent, CELATOM FW-60 / filter agent, CELATOM FW-80 / filter aid for cooking oil / flux calcined diatomaceous earth / flux calcined diatomite / flux calcined kieselguhr / grade C / HYFLO / hyflo DC / HYFLO RV / HYFLO SUPER CEL CELITE / HYFLO SUPERCEL / K-5 / KENITE 700 / kieselguhr, flux calcined / kieselguhr, soda ash flux calcined / PRIMISIL 602 / SILVER FROST CELITE K-5 / SILVERFROST / SPEEDNEX / SPEEDPLUS / SSC / STANDARD SUPER CELL CELITE / SUPER FLOSS / SUPER PE44 / SUPERFINE SUPERFLOSS / SUPERFINE SUPERFLOSS CELITE / SUPERFLOSS CELITE / syloid / WHITE MIST / WHITE MIST CELITE RV / X-3 / X-4 / X-5 / X-6 / X-7	(CAS-No.) 68855-54-9	< 5	STOT RE 2, H373

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
carbon black	10 B / 200303 / 3500 B / 40 B / acetylen black / acetylene black / acticarbon AC 35 / AD 200 / AD 200(carbon) / AM black / amorphous carbon / aquafine AF black E 2B / aquafine black E ZB / aro / aroflow / arogen / aromex / arotone / arovel / arrow / asahi 35 / asahi 60 / asahi 70 / asahi 80 / asahithermal / ASM(carbon) / ATG 60 / ATG 70 / atlantic / ATR 077 / austin black / austin black 325 / AX 3023 / BK 6 / BK 6(carbon black) / black FW / black pearls / black pearls 1000 / black pearls 1000A80 / black pearls 1100 / black pearls 1300 / black pearls 2000 / black pearls 700 / black pearls 800 / black pearls 880 / black pearls 900 / black pearls 1 / C.I. 77266 / C.I. pigment black 6 / C.I. pigment black 7 / cabot 330 / cabot 607 / calblack N 220 / cancarb / carbalac 2 / carbodis / carbodis 100 / carbodis 80 / carbolac / carbolac 1 / carbomet / CARBON BLACK / carbon black BV and V / carbon black corax N330 / carbon black EB501 / carbon black monarch 81 / carbon black pearls / carbon black pigment / carbon black, acetylene / carbon black, channel / carbon black, furnace / carbon black, lamp / carbon black, thermal / carbon, amorphous / CC 40-220 / CD-7037 / channel black / charcoal black / chesacarb / chesacarb E / chesacarb EC / chesacarb K 2 / chezasorb / CK3 / CK4 / CK4(carbon black) / clagon RBDA / collocarb / colour black FW 1 / columbia carbon / CONDUCTEX / CONDUCTEX 40-220 / CONDUCTEX 7055 / CONDUCTEX 900 / CONDUCTEX 950 / CONDUCTEX 975 / CONDUCTEX CC 40-220 / CONDUCTEX N 472 / CONDUCTEX SC / continental(=carbon black) / continex / CONTINEX N 330 / CONTINEX N 356 / corac P / corax / corax 234 / corax 3HS CSX 147 / corax A / corax L / corax L 29 / corax L 6 / corax N220 / corax N539 / corax N650 / corax N683 / corax N765 / corax P / croflex / crolac / CSX 150A / CSX 150A2 / CSX 174 / CSX 200A / CSX 99 / CSX191 / CSX230 / CSX242 / DEGUSSA black FW / DEGUSSA(=carbon black) / dermmapol black G / DG 100 / diablack 2350 / diablack 3500B / diablack 52 / diablack A / diablack E / diablack G / diablack H / diablack MA 100 / diablack MA 8 / diablack MA 8B / diablack SH / disperse black SD 9020 / dixie(=carbon black) / dixiecell / dixiedensed / dixitherm / DMG 105a durex O / durex O beads / durex(carbon black) / E carbon black / eagle germantown / EDO / EDO(carbon black) / eldic EC 8013 / ELF / ELF 78 / elfex 475 / ELF-O / elftex / elftex 115 / elftex 12 / elftex 120 / elftex 125 / elftex 150 / elftex 160 / elftex 180 / elftex 280 / elftex 285 / elftex 415 / elftex 430 / elftex 435 / elftex 460 / elftex 465 / elftex 470 / elftex 475 / elftex 480 / elftex 485 / elftex 490 / elftex 495 / elftex 5 / elftex 570 / elftex 670 / elftex 675 / elftex 8 / elftex TP / elftex-E280 / emacol NS black 4901 / EPC / EPC(carbon black) / essex / excelsior / EXP / EXP 1 / EXP 2 / EXP(carbon black) / explosion / explosion acetylene black / explosion black / F 122 / farbruss / farbruss FW 1 / farbruss S 160 (FARBRUSS) black / flamruss / furnace black / furnal / furnal 500 / furnex / furnex N 765 / FW 200 / FW 200(carbon) / G 2 / G2(carbon black) / gas black / gas-furnace black / gastex /	(CAS-No.) 1333-86-4	3 – 5	Carc. 2, H351
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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
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	0.5 – 1	Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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 -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) a mixture of: α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and α -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-omega-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 -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)	(CAS-No.) 104810-48-2	0.1 – 0.5	Skin Sens. 1A, H317 Aquatic Chronic 2, H411

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.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all 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	: IF exposed or concerned: Get medical advice/attention.

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

Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: 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.
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SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

5.3. Specific hazards arising from the hazardous product

Fire hazard	: Highly flammable liquid and vapor.
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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.
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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 : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

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 : 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. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe fume, mist, spray, vapors. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.

Hygiene measures : 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.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

acetone (67-64-1)		
Canada (Quebec)	VECD (OEL STEL)	2380 mg/m ³
Canada (Quebec)	VECD (OEL STEL) [ppm]	1000 ppm
Canada (Quebec)	VEMP (OEL TWA)	1190 mg/m ³
Canada (Quebec)	VEMP (OEL TWA) [ppm]	500 ppm
Canada (Quebec)	Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Alberta	OEL STEL	1800 mg/m ³
Alberta	OEL STEL [ppm]	750 ppm
Alberta	OEL TWA	1200 mg/m ³
Alberta	OEL TWA [ppm]	500 ppm
Alberta	Regulatory reference	Alberta Regulation 87/2009 (Alberta Regulation 150/2020)
British Columbia	OEL STEL [ppm]	500 ppm
British Columbia	OEL TWA [ppm]	250 ppm
British Columbia	Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Manitoba	OEL STEL [ppm]	500 ppm
Manitoba	OEL TWA [ppm]	250 ppm
Manitoba	Notations and remarks	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Manitoba	Regulatory reference	ACGIH
New Brunswick	OEL STEL [ppm]	500 ppm
New Brunswick	OEL TWA [ppm]	250 ppm
New Brunswick	Notations and remarks	eye irr; CNS impair; BEI
Newfoundland & Labrador	OEL STEL [ppm]	500 ppm
Newfoundland & Labrador	OEL TWA [ppm]	250 ppm
Newfoundland & Labrador	Notations and remarks	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Newfoundland & Labrador	Regulatory reference	ACGIH

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acetone (67-64-1)		
Nova Scotia	OEL STEL [ppm]	500 ppm
Nova Scotia	OEL TWA [ppm]	250 ppm
Nova Scotia	Notations and remarks	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Nova Scotia	Regulatory reference	ACGIH
Nunavut	OEL STEL [ppm]	750 ppm
Nunavut	OEL TWA [ppm]	500 ppm
Nunavut	Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016
Northwest Territories	OEL STEL [ppm]	750 ppm
Northwest Territories	OEL TWA [ppm]	500 ppm
Northwest Territories	Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-013-2020)
Ontario	OEL STEL [ppm]	500 ppm
Ontario	OEL TWA [ppm]	250 ppm
Ontario	Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Prince Edward Island	OEL STEL [ppm]	500 ppm
Prince Edward Island	OEL TWA [ppm]	250 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]	750 ppm
Saskatchewan	OEL TWA [ppm]	500 ppm
Saskatchewan	Regulatory reference	The Occupational Health and Safety Regulations, 1996. Chapter O-1.1 Reg 1
quartz (14808-60-7)		
Canada (Quebec)	VEMP (OEL TWA)	0.1 mg/m³ Rd
Canada (Quebec)	Notations and remarks	C2, EM
Canada (Quebec)	Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Alberta	OEL TWA	0.025 mg/m³
Alberta	Notations and remarks	Carcinogenicity A2
Alberta	Regulatory reference	Alberta Regulation 87/2009 (Alberta Regulation 150/2020)
British Columbia	OEL TWA	0.025 mg/m³ Respirable
British Columbia	Notations and remarks	ACGIH Carcinogenicity category A2; IARC group 1 carcinogen
British Columbia	Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Manitoba	OEL TWA	0.025 mg/m³ (R - Respirable particulate matter)
Manitoba	Notations and remarks	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)
Manitoba	Regulatory reference	ACGIH
Newfoundland & Labrador	OEL TWA	0.025 mg/m³ (R - Respirable particulate matter)
Newfoundland & Labrador	Notations and remarks	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)
Newfoundland & Labrador	Regulatory reference	ACGIH
Nova Scotia	OEL TWA	0.025 mg/m³ (R - Respirable particulate matter)
Nova Scotia	Notations and remarks	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)
Nova Scotia	Regulatory reference	ACGIH
Nunavut	OEL TWA	0.05 mg/m³ (respirable fraction)
Nunavut	Notations and remarks	Designated substance
Nunavut	Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016

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quartz (14808-60-7)		
Northwest Territories	OEL TWA	0.05 mg/m ³ (respirable fraction)
Northwest Territories	Notations and remarks	Designated substance
Northwest Territories	Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-013-2020)
Ontario	OEL TWA	0.1 mg/m ³ (R - Respirable fraction)
Ontario	Regulatory reference	Ontario Occupational Exposure Limits under Regulation 833
Prince Edward Island	OEL TWA	0.025 mg/m ³ (R - Respirable particulate matter)
Prince Edward Island	Notations and remarks	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)
Prince Edward Island	Regulatory reference	ACGIH
Saskatchewan	OEL TWA	0.05 mg/m ³ (respirable fraction)
Saskatchewan	Notations and remarks	Designated Chemical Substance
Saskatchewan	Regulatory reference	The Occupational Health and Safety Regulations, 1996. Chapter O-1.1 Reg 1
carbon black (1333-86-4)		
Canada (Quebec)	VEMP (OEL TWA)	3 mg/m ³ Id
Canada (Quebec)	Notations and remarks	C3
Canada (Quebec)	Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Alberta	OEL TWA	3.5 mg/m ³
Alberta	Regulatory reference	Alberta Regulation 87/2009 (Alberta Regulation 150/2020)
British Columbia	OEL TWA	3 mg/m ³ Inhalable
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	3 mg/m ³ (I - Inhalable particulate matter)
Manitoba	Notations and remarks	TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Manitoba	Regulatory reference	ACGIH
New Brunswick	OEL TWA	3 mg/m ³
New Brunswick	Notations and remarks	Bronchitis
Newfoundland & Labrador	OEL TWA	3 mg/m ³ (I - Inhalable particulate matter)
Newfoundland & Labrador	Notations and remarks	TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Newfoundland & Labrador	Regulatory reference	ACGIH
Nova Scotia	OEL TWA	3 mg/m ³ (I - Inhalable particulate matter)
Nova Scotia	Notations and remarks	TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Nova Scotia	Regulatory reference	ACGIH
Nunavut	OEL STEL	7 mg/m ³
Nunavut	OEL TWA	3 mg/m ³
Nunavut	Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016
Northwest Territories	OEL STEL	7 mg/m ³
Northwest Territories	OEL TWA	3.5 mg/m ³
Northwest Territories	Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-013-2020)
Ontario	OEL TWA	3 mg/m ³ (I - Inhalable fraction)
Ontario	Regulatory reference	Ontario Occupational Exposure Limits under Regulation 833
Prince Edward Island	OEL TWA	3 mg/m ³ (I - Inhalable particulate matter)

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carbon black (1333-86-4)		
Prince Edward Island	Notations and remarks	TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Prince Edward Island	Regulatory reference	ACGIH
Saskatchewan	OEL STEL	7 mg/m ³
Saskatchewan	OEL TWA	3.5 mg/m ³
Saskatchewan	Regulatory reference	The Occupational Health and Safety Regulations, 1996. Chapter O-1.1 Reg 1
calcium carbonate (471-34-1)		
Canada (Quebec)	VEMP (OEL TWA)	10 mg/m ³ Td
Canada (Quebec)	Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Alberta	OEL TWA	10 mg/m ³
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)
Nunavut	OEL STEL	20 mg/m ³
Nunavut	OEL TWA	10 mg/m ³
Nunavut	Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016
Northwest Territories	OEL STEL	20 mg/m ³
Northwest Territories	OEL TWA	10 mg/m ³
Northwest Territories	Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-013-2020)
Saskatchewan	OEL STEL	20 mg/m ³
Saskatchewan	OEL TWA	10 mg/m ³
Saskatchewan	Regulatory reference	The Occupational Health and Safety Regulations, 1996. Chapter O-1.1 Reg 1
crystalite, 1%≤conc respirable crystalline silica<10% (14464-46-1)		
Canada (Quebec)	VEMP (OEL TWA)	0.05 mg/m ³ Rd
Canada (Quebec)	Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Alberta	OEL TWA	0.025 mg/m ³
Alberta	Notations and remarks	Carcinogenicity A2
Alberta	Regulatory reference	Alberta Regulation 87/2009 (Alberta Regulation 150/2020)
British Columbia	OEL TWA	0.025 mg/m ³ Respirable
British Columbia	Notations and remarks	ACGIH Carcinogenicity category A2; IARC group 1 carcinogen
British Columbia	Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Manitoba	OEL TWA	0.025 mg/m ³ (R - Respirable particulate matter)
Manitoba	Notations and remarks	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)
Manitoba	Regulatory reference	ACGIH
Newfoundland & Labrador	OEL TWA	0.025 mg/m ³ (R - Respirable particulate matter)
Newfoundland & Labrador	Notations and remarks	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)
Newfoundland & Labrador	Regulatory reference	ACGIH
Nova Scotia	OEL TWA	0.025 mg/m ³ (R - Respirable particulate matter)
Nova Scotia	Notations and remarks	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)
Nova Scotia	Regulatory reference	ACGIH
Nunavut	OEL TWA	0.05 mg/m ³ (respirable fraction)
Nunavut	Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016

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crystalobalite, 1%≤conc respirable crystalline silica<10% (14464-46-1)		
Northwest Territories	OEL TWA	0.05 mg/m ³ (respirable fraction)
Northwest Territories	Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-013-2020)
Ontario	OEL TWA	0.05 mg/m ³ (R - Respirable fraction)
Ontario	Regulatory reference	Ontario Occupational Exposure Limits under Regulation 833
Prince Edward Island	OEL TWA	0.025 mg/m ³ (R - Respirable particulate matter)
Prince Edward Island	Notations and remarks	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)
Prince Edward Island	Regulatory reference	ACGIH
Saskatchewan	OEL TWA	0.05 mg/m ³ (respirable fraction)
Saskatchewan	Regulatory reference	The Occupational Health and Safety Regulations, 1996. Chapter O-1.1 Reg 1
n-butyl acetate (123-86-4)		
Canada (Quebec)	VECD (OEL STEL) [ppm]	150 ppm
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/m ³
Alberta	OEL STEL [ppm]	200 ppm
Alberta	OEL TWA	713 mg/m ³
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 Occupational Exposure Limits under Regulation 833

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n-butyl acetate (123-86-4)		
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

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	: Viscous liquid.
Color	: Black
Odor	: characteristic
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 56 °C
Flash point	: -17 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: Not applicable
Vapor pressure	: No data available
Vapor pressure at 50°C	: No data available
Relative density	: 1.11
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Explosion limits	: No data available

9.2. Other information

As Packaged Regulatory VOC : 220 g/l (1.83 lbs/gal)

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As Packaged Actual VOC	: 140 g/l (1.17 lbs/gal)
As Applied Regulatory VOC	: 199 g/l (1.66 lbs/gal)
As Applied Actual VOC	: 118 g/l (0.98 lbs/al)
Water Content	0 wt%
Exempt Compounds by volume	: 36.38 vol %
Exempt Compounds by weight	: 25.95 wt%
Volatiles	: 38.57 wt%
% EPA HAPS	: 0 wt%
Percent Solids	: 61.43 wt%

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	: Highly flammable liquid and vapor.
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

11.1. Information on toxicological effects

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

acetone (67-64-1)	
LD50 oral rat	5800 mg/kg body weight Animal: rat, Animal sex: female
LD50 dermal rabbit	> 15800 mg/kg body weight (24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	76 mg/l air Animal: rat, Animal sex: female, 95% CL: 65,2 - 88,4
ATE CA (oral)	5800 mg/kg body weight
carbon black (1333-86-4)	
LD50 oral rat	> 8000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
kieselguhr, soda ash flux calcined (68855-54-9)	
LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LC50 Inhalation - Rat	> 2.6 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
LC50 Inhalation - Rat (Dust/Mist)	> 2.6 mg/l/4h (4 h, OECD Guideline 403 (Acute Inhalation Toxicity), rat, male/female, Experimental value)
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)	390 ppmV/4h
ATE CA (vapors)	23.4 mg/l/4h
ATE CA (dust,mist)	23.4 mg/l/4h
reaction mass of bis(1,2,2,6,6-pentamethyl-4-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

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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) (104810-48-2)

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/female)
LC50 Inhalation - Rat	5800 mg/l (OECD Guideline 403, 14d, rat)
ATE CA (vapors)	5800 mg/l/4h
ATE CA (dust,mist)	5800 mg/l/4h

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.

Reproductive toxicity : Not classified

acetone (67-64-1)

LOAEL (animal/female, F0/P)	11298 mg/kg body weight Animal: mouse, Animal sex: female
NOAEL (animal/male, F0/P)	900 mg/kg body weight Animal: rat, Animal sex: male, Remarks on results: other:Generation not specified (migrated information)

STOT-single exposure : May cause drowsiness or dizziness.

acetone (67-64-1)

STOT-single exposure	May cause drowsiness or dizziness.
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n-butyl acetate (123-86-4)

STOT-single exposure	May cause drowsiness or dizziness.
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: May cause damage to organs through prolonged or repeated exposure.

STOT-repeated exposure

kieselguhr, soda ash flux calcined (68855-54-9)

NOAEL (oral,rat,90 days)	3737.9 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

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

SECTION 12: Ecological information

12.1. Toxicity

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
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

acetone (67-64-1)

LC50 - Fish [1]	6210 – 8120 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Measured concentration)
NOEC (chronic)	≥ 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
BCF - Fish [1]	0.69 (Pisces, Literature study)
Partition coefficient n-octanol/water (Log Pow)	-0.23 (Test data)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.374 – 0.988 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
LOEC (chronic)	> 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

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carbon black (1333-86-4)	
LC50 - Fish [1]	> 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	> 5600 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	> 10000 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 72h - Algae [1]	> 10000 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

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)

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) (104810-48-2)	
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)

12.2. Persistence and degradability

acetone (67-64-1)	
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.43 g O ₂ /g substance
Chemical oxygen demand (COD)	1.92 g O ₂ /g substance
ThOD	2.2 g O ₂ /g substance

carbon black (1333-86-4)	
Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

kieselguhr, soda ash flux calcined (68855-54-9)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

n-butyl acetate (123-86-4)	
Persistence and degradability	Readily biodegradable in water.
ThOD	2.21 g O ₂ /g substance

12.3. Bioaccumulative potential

acetone (67-64-1)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
BCF - Fish [1]	0.69 (Pisces, Literature study)
Partition coefficient n-octanol/water (Log Pow)	-0.23 (Test data)

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acetone (67-64-1)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.374 – 0.988 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
carbon black (1333-86-4)	
Bioaccumulative potential	Not bioaccumulative.
kieselguhr, soda ash flux calcined (68855-54-9)	
Bioaccumulative potential	No test data of component(s) available.
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)
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) (104810-48-2)	
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)

12.4. Mobility in soil

acetone (67-64-1)	
Surface tension	23.3 mN/m (20 °C)
Ecology - soil	Highly mobile in soil.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.374 – 0.988 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Partition coefficient n-octanol/water (Log Pow)	-0.23 (Test data)
carbon black (1333-86-4)	
Surface tension	Not applicable (solid)
Ecology - soil	No (test)data on mobility of the substance available. Not toxic to plants. Not toxic to animals.
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. Not toxic to plants.
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)
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) (104810-48-2)	
Partition coefficient n-octanol/water (Log Pow)	4.6 (Experimental value, Equivalent or similar to OECD 117, 25 °C)

12.5. Other adverse effects

Ozone : Not classified

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information : Flammable vapors may accumulate in the container.

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG

Transportation of Dangerous Goods

UN-No. (TDG) : UN1263
Packing group (TDG) : II - Medium Danger
TDG Primary Hazard Classes : 3 - Class 3 - Flammable Liquids
Transport document description (TDG) : UN1263 PAINT, 3, II
Proper Shipping Name (TDG) : PAINT

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Hazard labels (TDG) : 3 - Flammable Liquids



TDG Special Provisions : 59 - Substances that are listed by name in Schedule 1 must not be transported under this shipping name. Substances transported under this shipping name may contain not more than 20% nitrocellulose if the nitrocellulose contains not more than 12.6% nitrogen (by dry mass).
142 - The following shipping names may be used to meet the requirements of Part 3 (Documentation) and Part 4 (Dangerous Goods Safety Marks) when these dangerous goods are offered for transport in the same means of containment:
(a) "PAINT RELATED MATERIAL" may be used for a means of containment containing both paint and paint related material;
(b) "PAINT RELATED MATERIAL, CORROSIVE, FLAMMABLE" may be used for a means of containment containing both paint, corrosive, flammable, and paint related material, corrosive, flammable;
(c) "PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE" may be used for a means of containment containing both paint, flammable, corrosive, and paint related material, flammable, corrosive; and
(d) "PRINTING INK RELATED MATERIAL" may be used for a means of containment containing both printing ink and printing ink related material.

Explosive Limit and Limited Quantity Index : 5 L
Excepted quantities (TDG) : E2
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 5 L

14.2. Transport information/DOT

Department of Transport

DOT NA No : UN1263
UN-No.(DOT) : 1263
Packing group (DOT) : II - Medium Danger
Transport document description (DOT) : UN1263 Paint, 3, II
Proper Shipping Name (DOT) : Paint
Contains Statement Field Selection (DOT) :
Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Division (DOT) : 3
Hazard labels (DOT) : 3 - Flammable liquid



Marine pollutant : NO
Dangerous for the environment : No

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DOT Special Provisions (49 CFR 172.102)	: 149 - When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in 173.150(b)(2) of this subchapter for inner packaging may be increased to 5 L (1.3 gallons). 367 - For the purposes of documentation and package marking: a. The proper shipping name "Paint related material" may be used for consignments of packages containing "Paint" and "Paint related material" in the same package; b. The proper shipping name "Paint related material, corrosive, flammable" may be used for consignments of packages containing "Paint, corrosive, flammable" and "Paint related material, corrosive, flammable" in the same package; c. The proper shipping name "Paint related material, flammable, corrosive" may be used for consignments of packages containing "Paint, flammable, corrosive" and "Paint related material, flammable, corrosive" in the same package; and d. The proper shipping name "Printing ink related material" may be used for consignments of packages containing "Printing ink" and "Printing ink related material" in the same package. 383 - Packages containing toy plastic or paper caps for toy pistols described as "UN0349, Articles, explosive, n.o.s. (Toy caps), 1.4S" or "NA0337, Toy caps, 1.4S" are not subject to the subpart E (labeling) requirements of this part when offered for transportation by motor vehicle, rail freight, cargo vessel, and cargo aircraft and, notwithstanding the packing method assigned in §173.62 of this subchapter, in conformance with the following conditions: B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. B131 - When transported by highway, rail, or cargo vessel, waste Paint and Paint related material (UN1263; PG II and PG III), when in plastic or metal inner packagings of not more than 26.5 L (7 gallons), are excepted from the marking requirements in §172.301(a) and (c) and the labeling requirements in §172.400(a), when further packed in the following specification and non-specification bulk outer packagings and under the following conditions: a. Primary receptacles must conform to the general packaging requirements of subpart B of part 173 of this subchapter and may not leak. If they do leak, they must be overpacked in packagings conforming to the specification requirements of part 178 of this subchapter or in salvage packagings conforming to the requirements in §173.12 of this subchapter. b. Primary receptacles must be further packed in non-specification bulk outer packagings such as cubic yard boxes, plastic rigid-wall bulk containers, dump trailers, and roll-off containers. Bulk outer packagings must be liquid tight through design or by the use of lining materials. c. Primary receptacles may also be further packed in specification bulk outer packagings. Authorized specification bulk outer packagings are UN11G fiberboard intermediate bulk containers (IBC) and UN13H4 woven plastic, coated and with liner flexible intermediate bulk containers (FIBCs) meeting the Packing Group II performance level and lined with a plastic liner of at least 6 mil thickness. d. All inner packagings placed inside bulk outer packagings must be blocked and braced to prevent movement during transportation that could cause the container to open or fall over. Specification IBCs and FIBCs are to be secured to a pallet. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F). TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 173
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Emergency Response Guide (ERG) Number	: 128
Other information	: No supplementary information available.

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14.3. Air and sea transport

IMDG

UN-No. (IMDG)	: 1263
Proper Shipping Name (IMDG)	: PAINT
Transport document description (IMDG)	: UN 1263 PAINT, 3, II
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger

IATA

UN-No. (IATA)	: 1263
Proper Shipping Name (IATA)	: Paint
Transport document description (IATA)	: UN 1263 Paint, 3, II
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger

SECTION 15: Regulatory information

15.1. National regulations

acetone (67-64-1)

Listed on the Canadian DSL (Domestic Substances List)

carbon black (1333-86-4)

Listed on the Canadian DSL (Domestic Substances List)

kieselguhr, soda ash flux calcined (68855-54-9)

Listed on the Canadian DSL (Domestic Substances List)

n-butyl acetate (123-86-4)

Listed on the Canadian DSL (Domestic Substances List)

reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

15.2. International regulations

acetone (67-64-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

carbon black (1333-86-4)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

kieselguhr, soda ash flux calcined (68855-54-9)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

n-butyl acetate (123-86-4)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

SECTION 16: Other information

Issue date	: 08-06-2021
Revision date	: 05-03-2023
Supersedes	: 08-06-2021

Full text of H-phrases:

H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
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

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.