



RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

DRIVING SURFACE PERFECTION

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Version: 2.1

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
 Trade name : RAPTOR PROTECTIVE COATING - WHITE BASE
 Product code : RLW/1
 Product group : Coating
 Other means of identification : Component of: UP4808, UP8407.

1.2. Recommended use and restrictions on use

Recommended use : Coating

1.3. 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 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.
 P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 - Keep container tightly closed.
 P242 - Use only non-sparking tools.
 P243 - Take action to prevent static discharges.
 P260 - Do not breathe 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 eye protection, protective clothing, protective gloves.
 P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

Rinse skin with water or shower.
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.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use dry sand, extinguishing powder, foam to extinguish.
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

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] 1700 WHITE / A051 / A072 / A351 / AC 1 / AC 11 / AC 5 / A-FIL CREAM / AJANTOX / AJANTOX AGP / AJANTOX GR / AJANTOX RUTILE / AN10 / ASD / ASTM D476 / ASTM D76 / atlas white titanium dioxide / AUSTIOX / AUSTIOX ADM / AUSTIOX AE / AUSTIOX AFN3 / AUSTIOX AHR / AUSTIOX ALF / AUSTIOX ALF2 / AUSTIOX APP / AUSTIOX APP2 / AUSTIOX GRANULAR / AUSTIOX RCR / AUSTIOX RCR10 / AUSTIOX RCR2 / AUSTIOX RCR3 / AUSTIOX RCR6 / AUSTIOX RCR60 / AUSTIOX RFC / AUSTIOX RFC2 / AUSTIOX RFC5 / AUSTIOX RHD / AUSTIOX RHD2 / AUSTIOX RHD3 / AUSTIOX RHD4 / AUSTIOX RHD6 / AUSTIOX RMC / AUSTIOX RSM / AUSTIOX RSM2 / AUSTIOX RSM3 / AUSTIOX RTC2 / AUSTIOX RTC30 / AUSTIOX RTC4 / AUSTIOX RTC4U / AUSTIOX RTC50 / AUSTIOX RTC90 / AUSTIOX RXL / AUSTIOX RXW / BAYER titan / BAYER titan A / BAYER titan A2 / BAYER titan AC5522 / BAYER titan AC5581 / BAYER titan AE / BAYER titan AN2 / BAYER titan AN3 / BAYER titan RCK20 / BAYER titan RCL10 / BAYER titan RCL20 / BAYER titan RD / BAYER titan RFD1 / BAYER titan RFD2 / BAYER titan RFDI / BAYER titan R-FK 21 / BAYER titan RFKD / BAYER titan RKB2 / BAYER titan RKB3 / BAYER titan RKB4 / BAYER titan RKBD / BAYER titan RPL1 / BAYER titan RU2 / BAYER titan RUF / BAYER titan T / BAYERITIAN / BAYTITAN / C.I. 77891 / C.I. pigment white 6 / CABOT / CALCOTONE WHITE T / COSMETIC WHITE C47-5175 / COSMETIC WHITE C47-9623 / DETI-ANA / DETI-RU / E171 / ET 10 / FA50 / FA55W / FA65 / FA80 / FE150 / FE160 / FINN titan / FINN titan AG / FINN titan AN / FINN titan AP / FINN titan RD / FINN titan RD2 / FINN titan RDD / FINN titan RDDX / FINN titan RDE2 / FINN titan RDI / FINN titan RF / FINN titan RF2 / FINN titan RF2new / FINN titan RF4 / FINN titan RR / FINN titan RR2 / FINN titan RR2S / FINN titan RR3 / FINN titan RRL / FINN titan RU / FLAMENCO / FR22 / FR30 / FR31 / FR41 / FRUF84 / FUJI titan / FUJI titan TA100 / FUJI titan TA200 / FUJI titan TA210 / FUJI titan TA300 / FUJI titan TA400 / FUJI titan TA500 / FUJI titan TE / FUJI titan TP13 / FUJI titan TP2 / FUJI titan TP3 / FUJI titan TR700 / FUJI titan TR780 / FUJI titan TR840 / FURUKAWA / HOMBITAN / HOMBITAN KA / HOMBITAN LOCR / HOMBITAN LOCRK / HOMBITAN LOCRS / HOMBITAN LW / HOMBITAN LWS / HOMBITAN LWSU / HOMBITAN R101 / HOMBITAN R10106 / HOMBITAN R101D / HOMBITAN R110 / HOMBITAN R210 / HOMBITAN R301 / HOMBITAN R301D / HOMBITAN R320 / HOMBITAN R505 / HOMBITAN R506 / HOMBITAN R510 / HOMBITAN R511 / HOMBITAN R610 / HOMBITAN R610D / HOMBITAN R610K / HOMBITAN R610L / HOMBITAN R611 / HOMBITAN R611D / HOMBITAN R710 / HOMBITAN RCL66 / HOMBITAN SA10 / HOMBITAN SR12 / HOMBITAN SR16 / HORSE HEAD / HORSE HEAD A-410 / HORSE HEAD A-420 / HORSE HEAD A430 /	(CAS-No.) 13463-67-7	15 – 30	Not classified
08-03-2023	R710 / HOMBITAN RCL66 (English US) / HOMBITAN RCL66 / HOMBITAN SA10 / HOMBITAN SR12 / HOMBITAN SR16 / HORSE HEAD / HORSE HEAD A-410 / HORSE HEAD A-420 / HORSE HEAD A430 /			3/27

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
2-methoxy-1-methylethyl acetate	2-methoxy-1-methylethyl acetate 1,2-propanediol monomethyl ether acetate / 1-methoxy-2-acetoxy propane / 1-methoxy-2-propanol acetate / 1-methoxy-2-propyl acetate / 2-acetoxy-1-methoxypropane / 2-methoxy propyl acetate / 2-methoxy-1-methylethyl acetate / 2PG1MEA (= 2-propylene glycol-1-methyl ether acetate) / 2-propanol, 1-methoxy-, acetate / 2-propylene glycol-1-methyl ether acetate / acetic acid, 2-methoxy-1-methylethyl ester / arcosolv PM acetate / DOWANOL (R) PMA glycol ether acetate / DOWANOL PMA glycol ether acetate / G50CB389 / MPA (= methyl proxitol acetate) / propylene glycol methyl ether acetate / propylene glycol monomethyl ether acetate	(CAS-No.) 108-65-6	3 – 10	Flam. Liq. 3, H226
reaction mass of ethylbenzene, m-xylene and p-xylene			3 – 10	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
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	3 – 7	Flam. Liq. 3, H226 STOT SE 3, H336

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

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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	< 3	STOT RE 2, H373

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

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dibutyltin dilaurate	ADVASTAB 52 / bibutyltinlaurate / bis(dodecanoyloxy)di-normal-butylstannane / bis(lauroyloxy)di(n-butyl)stannane / bis(lauroyloxy)dibutylstannane / butynorate / cata-chek 820 / DABCO T12CL / DABCO T-12CL catalyst / davainex / DBTL / di(n-butyl)stannane / dibutyl[bis(dodecanoyloxy)]stannane / dibutyl-bis((1-oxododecyl)oxy)stannane / dibutylbis(laurato)tin / dibutylbis(lauroxy)stannane / dibutylbis(lauroyloxy)stannane / dibutylbis(lauroyloxy)tin / dibutylstannium dilaurate / dibutylstannylene dilaurate / dibutyltin didodecanoate / dibutyltin dilaurate / dibutyltin dilaurate, selectophore / dibutyltin laurate / dibutyltin n-dodecanoate / dibutyltin-dilaurate / di-n-butyltindi(dodecanoate) / di-normal-butylidi(dodecanoate)tin / DXR 81 / FOMREZ SUL-4 / kosmos 19 / KS 20 / lankromark LT 173 / lauric acid dibutylstannylene / lauric acid dibutylstannylene salt / lauric acid dibutyltin / lauric acid, dibutylstannylene derivate / lauric acid, dibutyltin deriv. / laustan-B / mark 1038 / mark BT 11 / mark BT 18 / neostann U 100 / ongrostab BLTM / SM 2014C / STABILIZER D-22 / stanclere DBTL / stannane, bis(dodecanoyloxy) di-n-butyl- / stannane, bis(lauroyloxy)dibutyl- / stannane, dibutylbis((1-oxododecyl)oxy)- / stannane, dibutylbis(lauroyloxy)- / stavincor 1200 SN / stavincor 1200 SN / THERM CHEK 820 / thermolite T 12 / tin dibutyl dilaurate / tin, dibutylbis(lauroyloxy)- / tin, di-n-butyl-, di(dodecanoate) / tinostat / TINSTAB BL277 / TN12 / TN12(catalyst) / TVS Tin Lau / TVS-TL 700	(CAS-No.) 77-58-7	< 0.1	Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360 STOT SE 1, H370 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
lithium chloride	hydrochloric acid lithium salt / hydrochloric acid, dilithium salt / lithium chloride / lithium chloride (LiCl) / lithium chloride, anhydrous	(CAS-No.) 7447-41-8	< 0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319
phosphoric acid ... %, orthophosphoric acid ... %	phosphoric acid ... %, orthophosphoric acid ... % orthophosphoric acid, conc≥25%, aqueous solutions / phosphoric acid, technical, conc≥25%, aqueous solutions / phosphoric-acid-	(CAS-No.) 7664-38-2	< 0.1	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314
2-methoxypropyl acetate	2-methoxypropyl acetate 1-propanol, 2-methoxy-, acetate / 2-methoxy-1-propanol acetate / 2-methoxy-1-propyl acetate / 2-methoxypropyl acetate / acetic acid, 2-methoxypropyl ester	(CAS-No.) 70657-70-4	< 0.1	Flam. Liq. 3, H226 Repr. 1B, H360 STOT SE 3, H335

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.

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

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.

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 : Highly flammable liquid and vapor.

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

For containment : Collect spillage.
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 vapors, fume, spray. 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.
Storage temperature : < 25 °C
Storage area : Store in a well-ventilated place.
Special rules on packaging : Keep only in original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-methoxy-1-methylethyl acetate (108-65-6)		
British Columbia	OEL STEL [ppm]	75 ppm
British Columbia	OEL TWA [ppm]	50 ppm
British Columbia	Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

2-methoxy-1-methylethyl acetate (108-65-6)		
Ontario	OEL TWA	270 mg/m ³
Ontario	OEL TWA [ppm]	50 ppm
Ontario	Regulatory reference	Ontario Occupational Exposure Limits under Regulation 833
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
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 Occupational 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

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

acetone (67-64-1)		
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
phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)		
Canada (Quebec)	VECD (OEL STEL)	3 mg/m ³
Canada (Quebec)	VEMP (OEL TWA)	1 mg/m ³
Canada (Quebec)	Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Alberta	OEL STEL	3 mg/m ³
Alberta	OEL TWA	1 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)
British Columbia	OEL STEL	3 mg/m ³
British Columbia	OEL TWA	1 mg/m ³
British Columbia	Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Manitoba	OEL STEL	3 mg/m ³
Manitoba	OEL TWA	1 mg/m ³
Manitoba	Notations and remarks	TLV® Basis: URT, eye, & skin irr
Manitoba	Regulatory reference	ACGIH
New Brunswick	OEL STEL	3 mg/m ³
New Brunswick	OEL TWA	1 mg/m ³
New Brunswick	Notations and remarks	URT, eye, & skin irr
Newfoundland & Labrador	OEL STEL	3 mg/m ³
Newfoundland & Labrador	OEL TWA	1 mg/m ³
Newfoundland & Labrador	Notations and remarks	TLV® Basis: URT, eye, & skin irr
Newfoundland & Labrador	Regulatory reference	ACGIH
Nova Scotia	OEL STEL	3 mg/m ³
Nova Scotia	OEL TWA	1 mg/m ³
Nova Scotia	Notations and remarks	TLV® Basis: URT, eye, & skin irr
Nova Scotia	Regulatory reference	ACGIH
Nunavut	OEL STEL	3 mg/m ³
Nunavut	OEL TWA	1 mg/m ³
Nunavut	Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016
Northwest Territories	OEL STEL	3 mg/m ³
Northwest Territories	OEL TWA	1 mg/m ³
Northwest Territories	Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-013-2020)
Ontario	OEL STEL	3 mg/m ³
Ontario	OEL TWA	1 mg/m ³
Ontario	Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Prince Edward Island	OEL STEL	3 mg/m ³
Prince Edward Island	OEL TWA	1 mg/m ³
Prince Edward Island	Notations and remarks	TLV® Basis: URT, eye, & skin irr
Prince Edward Island	Regulatory reference	ACGIH

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)		
Saskatchewan	OEL STEL	3 mg/m ³
Saskatchewan	OEL TWA	1 mg/m ³
Saskatchewan	Regulatory reference	The Occupational Health and Safety Regulations, 1996. Chapter O-1.1 Reg 1
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)		
Canada (Quebec)	VEMP (OEL TWA)	10 mg/m ³ Td
Canada (Quebec)	Notations and remarks	Note 1: The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1%
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)
British Columbia	OEL TWA	10 mg/m ³ Total dust
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	10 mg/m ³
Manitoba	Notations and remarks	TLV® Basis: LRT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Manitoba	Regulatory reference	ACGIH
New Brunswick	OEL TWA	10 mg/m ³
New Brunswick	Notations and remarks	LRT irr
Newfoundland & Labrador	OEL TWA	10 mg/m ³
Newfoundland & Labrador	Notations and remarks	TLV® Basis: LRT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Newfoundland & Labrador	Regulatory reference	ACGIH
Nova Scotia	OEL TWA	10 mg/m ³
Nova Scotia	Notations and remarks	TLV® Basis: LRT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Nova Scotia	Regulatory reference	ACGIH
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)
Ontario	OEL TWA	10 mg/m ³
Ontario	Regulatory reference	Ontario Occupational Exposure Limits under Regulation 833
Prince Edward Island	OEL TWA	10 mg/m ³
Prince Edward Island	Notations and remarks	TLV® Basis: LRT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Prince Edward Island	Regulatory reference	ACGIH
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

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

crystalobalite, 1%≤conc respirable crystalline silica<10% (14464-46-1)		
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
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 Occuational 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

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

n-butyl acetate (123-86-4)		
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
2-methoxypropyl acetate (70657-70-4)		
British Columbia	OEL STEL [ppm]	40 ppm
British Columbia	OEL TWA [ppm]	20 ppm
British Columbia	Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
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)

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

quartz (14808-60-7)		
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	Notations and remarks	Designated substance
Nunavut	Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016
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
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
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

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

carbon black (1333-86-4)		
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)
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

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

Personal protective equipment:

Gloves. Protective clothing. Safety glasses.

Materials for protective clothing:

Impermeable clothing

Hand protection:

Protective gloves

Eye protection:

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear respiratory protection. Air-fed respiratory protective equipment should be worn when this product is sprayed

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	: white
Odor	: aromatic
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	: No data available
Freezing point	: No data available
Boiling point	: > 35 °C
Flash point	: -17 °C Acetone
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	: No data available
Density	: 1.17 (1.15 – 1.19) g/cm ³
Solubility	: insoluble in water. Soluble in aromatic hydrocarbons.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: 6837.607 mm ² /s
Viscosity, dynamic	: 8000 (7000 – 9000) cP (20°C)
Explosion limits	: No data available

9.2. Other information

As Packaged Regulatory VOC	: 297 g/l (2.5 lbs/gal)
As Packaged Actual VOC	: 221 g/l (1.8 lbs/gal)
Water Content	: 0 wt%
Exempt Compounds by volume	: 25.6 vol %
Exempt Compounds by weight	: 17.3 wt%
Volatiles	: 36.2 wt%
% EPA HAPS	: 7.1 wt%
Percent Solids	: 63.85 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.

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

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

2-methoxy-1-methylethyl acetate (108-65-6)	
LD50 oral rat	6190 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	> 5000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat [ppm]	1728 ppm/4h (4 h, OECD Guideline 403 (Acute Inhalation Toxicity), rat, male/female, Inhalation, vapours)
ATE CA (oral)	6190 mg/kg body weight
ATE CA (Gases)	1728 ppmV/4h
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
dibutyltin dilaurate (77-58-7)	
LD50 oral rat	2071 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1207 - 5106
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
ATE CA (oral)	2071 mg/kg body weight
phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)	
LD50 oral rat	301 mg/kg (OECD 423)
LD50 dermal rabbit	2750 mg/kg
ATE CA (oral)	301 mg/kg body weight
ATE CA (Dermal)	2750 mg/kg body weight
solvent naphtha (petroleum), light aromatic (64742-95-6)	
LD50 oral rat	> 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 3160 mg/kg (OECD Test Guideline 402)
LC50 Inhalation - Rat (Vapours)	> 6.193 mg/l/4h (4 h, OECD Test Guideline 403, vapours)
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)	
LD50 oral rat	> 5000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)
LC50 Inhalation - Rat	> 5.09 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s))
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)

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

n-butyl acetate (123-86-4)	
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 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

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

lithium chloride (7447-41-8)	
LD50 oral rat	526 mg/kg body weight Animal: rat, Animal sex: male
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPP 81-2 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 5.57 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)
ATE CA (oral)	526 mg/kg body weight

reaction mass of ethylbenzene, m-xylene and p-xylene	
LD50 oral rat	3523 mg/kg (EU Method B.1 (Acute Toxicity (Oral), rat, male)
LD50 dermal rabbit	12126 mg/kg body weight Animal: rabbit, Animal sex: male
LC50 Inhalation - Rat [ppm]	6350 ppm/4h (4 h, EU Method B.2 (Acute Toxicity (Inhalation)), rat, male, Inhalation, vapours)
ATE CA (oral)	3523 mg/kg body weight
ATE CA (Dermal)	1100 mg/kg body weight
ATE CA (Gases)	6350 ppmV/4h
ATE CA (vapors)	11 mg/l/4h
ATE CA (dust,mist)	1.5 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)

dibutyltin dilaurate (77-58-7)	
NOAEL (animal/male, F0/P)	1.9 – 2.3 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)
NOAEL (animal/female, F0/P)	1.7 – 2.4 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)

phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)	
NOAEL (animal/male, F0/P)	> 500

STOT-single exposure : May cause drowsiness or dizziness.

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

acetone (67-64-1)	
STOT-single exposure	May cause drowsiness or dizziness.
dibutyltin dilaurate (77-58-7)	
STOT-single exposure	Causes damage to organs.
solvent naphtha (petroleum), light aromatic (64742-95-6)	
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.
n-butyl acetate (123-86-4)	
STOT-single exposure	May cause drowsiness or dizziness.
reaction mass of ethylbenzene, m-xylene and p-xylene	
STOT-single exposure	May cause respiratory irritation.
2-methoxypropyl acetate (70657-70-4)	
STOT-single exposure	May cause respiratory irritation.

: May cause damage to organs through prolonged or repeated exposure.

STOT-repeated exposure

2-methoxy-1-methylethyl acetate (108-65-6)	
NOAEL (oral, rat, 90 days)	≥ 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
dibutyltin dilaurate (77-58-7)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)	
NOAEL (oral, rat, 90 days)	250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
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.
reaction mass of ethylbenzene, m-xylene and p-xylene	
LOAEL (oral, rat, 90 days)	150 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity)
NOAEL (oral, rat, 90 days)	150 mg/kg bodyweight/day (OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), female)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

RAPTOR PROTECTIVE COATING - WHITE BASE	
Viscosity, kinematic	6837.607 mm ² /s

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

2-methoxy-1-methylethyl acetate (108-65-6)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Oryzias latipes
EC50 - Crustacea [1]	> 500 mg/l Test organisms (species): Daphnia magna
ErC50 algae	> 1000 mg/l (OECD 201: Alga, Growth Inhibition Test, 96 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

2-methoxy-1-methylethyl acetate (108-65-6)	
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC chronic fish	47.5 mg/l Test organisms (species): Oryzias latipes Duration: '14 d'
NOEC (chronic)	≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
Partition coefficient n-octanol/water (Log Pow)	1.2 (Experimental value, Equivalent or similar to OECD 117, 20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.602 – 1.079 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
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'
dibutyltin dilaurate (77-58-7)	
LC50 - Fish [1]	3.1 mg/l
EC50 - Crustacea [1]	1.7 – 3.4 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	< 463 µg/l Test organisms (species): Daphnia magna
ErC50 algae	1 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Tin)
EC50 72h - Algae [1]	> 1 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
Partition coefficient n-octanol/water (Log Pow)	4.44 (Practical experience/observation, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20.8 °C)
phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)	
LC50 - Fish [1]	3 – 3.25 mg/l Lepomis macrochirus (Bluegill)
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
ErC50 other aquatic plants	> 100 mg/l OECD 201, Desmodesmus subspicatus
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC chronic algae	100 mg/l Desmodesmus subspicatus
Partition coefficient n-octanol/water (Log Pow)	-2
solvent naphtha (petroleum), light aromatic (64742-95-6)	
Partition coefficient n-octanol/water (Log Pow)	2.1 – 6
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)	
LC50 - Fish [1]	155 mg/l Test organisms (species): other: Japanese Medaka
EC50 - Crustacea [1]	19.3 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	27.8 mg/l Test organisms (species): Daphnia magna
ErC50 algae	61 mg/l (EPA 600/9-78-018, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	≥ 2.92 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
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)

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

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)

lithium chloride (7447-41-8)	
LC50 - Fish [1]	158 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	249 mg/l Test organisms (species): Daphnia magna
ErC50 algae	> 400 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 72h - Algae [1]	> 400 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	112 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
Partition coefficient n-octanol/water (Log Pow)	-0.46 (Estimated value, KOWWIN, 20 °C)
LOEC (chronic)	2.53 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

reaction mass of ethylbenzene, m-xylene and p-xylene	
LC50 - Fish [1]	2.6 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	> 3.4 mg/l Test organisms (species): Ceriodaphnia dubia
EC50 72h - Algae [1]	1.3 mg/l
NOEC chronic fish	> 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'

12.2. Persistence and degradability

2-methoxy-1-methylethyl acetate (108-65-6)	
Persistence and degradability	Readily biodegradable in the soil. Readily biodegradable in water.

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

dibutyltin dilaurate (77-58-7)	
Persistence and degradability	Not readily biodegradable in water.

phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)	
Persistence and degradability	Biodegradability: not applicable.

solvent naphtha (petroleum), light aromatic (64742-95-6)	
Persistence and degradability	May cause long-term adverse effects in the environment.

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter \leq 10 μm] (13463-67-7)	
Persistence and degradability	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

crystalite, 1%\leqconc respirable crystalline silica<10% (14464-46-1)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

crystalite, 1%≤conc respirable crystalline silica<10% (14464-46-1)	
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
lithium chloride (7447-41-8)	
Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
2-methoxypropyl acetate (70657-70-4)	
Persistence and degradability	Biodegradability in water: no data available.
12.3. Bioaccumulative potential	
2-methoxy-1-methylethyl acetate (108-65-6)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Partition coefficient n-octanol/water (Log Pow)	1.2 (Experimental value, Equivalent or similar to OECD 117, 20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.602 – 1.079 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
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)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.374 – 0.988 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
dibutyltin dilaurate (77-58-7)	
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).
Partition coefficient n-octanol/water (Log Pow)	4.44 (Practical experience/observation, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20.8 °C)
phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)	
Bioaccumulative potential	Does not contain bioaccumulative component(s).
Partition coefficient n-octanol/water (Log Pow)	-2
solvent naphtha (petroleum), light aromatic (64742-95-6)	
Bioaccumulative potential	Not established.
Partition coefficient n-octanol/water (Log Pow)	2.1 – 6
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)	
Bioaccumulative potential	Not bioaccumulative.
kieselguhr, soda ash flux calcined (68855-54-9)	
Bioaccumulative potential	No test data of component(s) available.
crystalite, 1%≤conc respirable crystalline silica<10% (14464-46-1)	
Bioaccumulative potential	No test data 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)
lithium chloride (7447-41-8)	
Bioaccumulative potential	Not bioaccumulative.
Partition coefficient n-octanol/water (Log Pow)	-0.46 (Estimated value, KOWWIN, 20 °C)

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

2-methoxypropyl acetate (70657-70-4)	
Bioaccumulative potential	No bioaccumulation data available.
12.4. Mobility in soil	
2-methoxy-1-methylethyl acetate (108-65-6)	
Surface tension	29.4 mN/m (20 °C, 100 vol %, EU Method A.5: Surface tension)
Ecology - soil	Highly mobile in soil.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.602 – 1.079 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Partition coefficient n-octanol/water (Log Pow)	1.2 (Experimental value, Equivalent or similar to OECD 117, 20 °C)
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)
dibutyltin dilaurate (77-58-7)	
Surface tension	No data available in the literature
Ecology - soil	No (test)data on mobility of the substance available.
Partition coefficient n-octanol/water (Log Pow)	4.44 (Practical experience/observation, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20.8 °C)
phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)	
Surface tension	No data available in the literature
Ecology - soil	No (test)data on mobility of the component(s) available.
Partition coefficient n-octanol/water (Log Pow)	-2
solvent naphtha (petroleum), light aromatic (64742-95-6)	
Partition coefficient n-octanol/water (Log Pow)	2.1 – 6
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)	
Surface tension	No data available in the literature
Ecology - soil	Low potential for mobility in soil.
crystalite, 1%≤conc respirable crystalline silica<10% (14464-46-1)	
Ecology - soil	No (test)data on mobility of the substance available.
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)propionyloxypoly(oxyethylene) (104810-48-2)	
Partition coefficient n-octanol/water (Log Pow)	4.6 (Experimental value, Equivalent or similar to OECD 117, 25 °C)
lithium chloride (7447-41-8)	
Surface tension	No data available (test not performed)
Ecology - soil	Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation.
Partition coefficient n-octanol/water (Log Pow)	-0.46 (Estimated value, KOWWIN, 20 °C)

12.5. Other adverse effects

Ozone : Not classified

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste) : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information : Flammable vapors may accumulate in the container.

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

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 (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) with not more than 20 per cent nitrocellulose by mass if the nitrogen content of the nitrocellulose is not more than 12.6 per cent by mass), 3, II
Proper Shipping Name (TDG)	: PAINT including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) with not more than 20 per cent nitrocellulose by mass if the nitrogen content of the nitrocellulose is not more than 12.6 per cent by mass
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 (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) with not more than 20 per cent nitrocellulose by mass if the nitrogen content of the nitrocellulose is not more than 12.6 per cent by mass), 3, II
Proper Shipping Name (DOT)	: Paint including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) with not more than 20 per cent nitrocellulose by mass if the nitrogen content of the nitrocellulose is not more than 12.6 per cent by mass
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



RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

Marine pollutant	: NO
Dangerous for the environment	: No
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

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

Other information : No supplementary information available.

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

2-methoxy-1-methylethyl acetate (108-65-6)

Listed on the Canadian DSL (Domestic Substances List)

acetone (67-64-1)

Listed on the Canadian DSL (Domestic Substances List)

dibutyltin dilaurate (77-58-7)

Listed on the Canadian DSL (Domestic Substances List)

phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)

Listed on the Canadian DSL (Domestic Substances List)

phosphoric acid polyester (72243-070628, Germany)

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

solvent naphtha (petroleum), light aromatic (64742-95-6)

Listed on the Canadian DSL (Domestic Substances List)

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] (13463-67-7)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

crystalite, 1% \leq conc respirable crystalline silica<10% (14464-46-1)

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)

lithium chloride (7447-41-8)

Listed on the Canadian DSL (Domestic Substances List)

reaction mass of ethylbenzene, m-xylene and p-xylene

Listed on the Canadian DSL (Domestic Substances List)

2-methoxypropyl acetate (70657-70-4)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

2-methoxy-1-methylethyl acetate (108-65-6)

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

acetone (67-64-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

dibutyltin dilaurate (77-58-7)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

RAPTOR PROTECTIVE COATING - WHITE BASE

Safety Data Sheet

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

phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
phosphoric acid polyester (72243-070628, Germany)
Not listed on the United States TSCA (Toxic Substances Control Act) inventory
solvent naphtha (petroleum), light aromatic (64742-95-6)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
kieselguhr, soda ash flux calcined (68855-54-9)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
crystalobalite, 1%≤conc respirable crystalline silica<10% (14464-46-1)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
n-butyl acetate (123-86-4)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
lithium chloride (7447-41-8)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
reaction mass of ethylbenzene, m-xylene and p-xylene
Listed on the United States TSCA (Toxic Substances Control Act) inventory
2-methoxypropyl acetate (70657-70-4)
Not listed on the United States TSCA (Toxic Substances Control Act) inventory

SECTION 16: Other information

SDS Major/Minor	: None
Issue date	: 04-21-2020
Revision date	: 07-13-2021
Supersedes	: 08-27-2020

Full text of H-phrases:

H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H290	May be corrosive to metals
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
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
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H370	Causes damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
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

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.