



# UP2843 2:1 CLEARCOAT 2.1 VOC

## Safety Data Sheet

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

DRIVING SURFACE PERFECTION

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### SECTION 1: Identification

#### 1.1. Product identifier

Product form : Mixture  
Trade name : UP2843 2:1 CLEARCOAT 2.1 VOC  
Product code : S2084  
UP Number : UP2843  
Product group : clearcoat

#### 1.2. Recommended use and restrictions on use

Recommended use : Topcoat

#### 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](mailto:technicalsupport@u-pol.com) - [www.u-pol.com](http://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 3	H226
Serious eye damage/eye irritation Category 2	H319
Skin sensitization, Category 1	H317
Specific target organ toxicity (single exposure) Category 3	H336
Hazardous to the aquatic environment - Chronic Hazard Category 2	H411

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) : Warning

Hazard statements (GHS CA) : H226 - Flammable liquid and vapor  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H336 - May cause drowsiness or dizziness  
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS CA) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 - Avoid breathing vapors, fume, spray.  
P264 - Wash hands thoroughly after handling.  
P280 - Wear face protection, protective clothing, protective gloves.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
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

No additional information available

#### 2.4. Unknown acute toxicity (GHS CA)

No data available

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

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### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
4-chlorobenzotrifluoride	(para-chlorophenyl)trifluoromethane / (p-chlorophenyl)trifluoromethane / 1-chloro-4(trifluoromethyl)benzene / 4-chloro-1-trifluoromethylbenzene / 4-chloro-alpha,alpha,alpha-trifluorotoluene / 4-chlorobenzotrifluoromethylbenzene / alpha,alpha,alpha-trifluoro-4-chlorotoluene / benzene, 1-chloro-4-(trifluoromethyl)- / p-(trifluoromethyl)chlorobenzene / para-(trifluoromethyl)chlorobenzene / para-chloro-alpha,alpha,alpha-trifluorotoluene / para-chlorobenzotrifluoride / para-chlorobenzylidynettrifluoride / para-chlorotrifluoromethylbenzene / para-trifluoromethylphenylchloride / PCBTF (=para-chlorobenzylidynettrifluoride) / p-chloro-alpha,alpha,alpha-trifluorotoluene / p-chlorobenzotrifluoride / p-chlorobenzylidynettrifluoride / p-chlorotrifluoromethylbenzene / p-trifluoromethylphenylchloride	(CAS-No.) 98-56-6	30 - 40	Flam. Liq. 3, H226 Skin Sens. 1, H317 Aquatic Chronic 2, H411
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	7 - 30	Flam. Liq. 3, H226 STOT SE 3, H336
acetone	2-propanon / 2-propanone / acetone / acetone NF / acetone oil / AI3-01238 / Caswell No.004 / chevron acetone / dimethyl formaldehyde / dimethyl ketone / dimethylketal / Dimethylketon / DMK (=dimethyl ketone) / FEMA No 3326 / ketone propane / KTI acetone / methyl acetyl / 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
heptan-2-one	2-heptanone / 2-ketoheptane / amyimethyl ketone / butylacetone / FEMA NUMBER 2544 / heptan-2-one / ketone C-7 / MAK / methyl amyl ketone / methyl pentyl ketone / methylamyl ketone / methyl-n-amylketone / methyl-normal-amyl ketone / n-amyl methyl ketone / normal-amylmethyl ketone / normal-pentyl methyl ketone / n-pentyl methyl ketone / pentyl methyl ketone	(CAS-No.) 110-43-0	3 - 5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332



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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.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

### 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 : Ensure good ventilation of the work station. 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. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

### 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

n-butyl acetate (123-86-4)		
Ontario	OEL STEL (ppm)	200 ppm
Ontario	OEL TWA (ppm)	150 ppm
Ontario	Regulatory reference	Ontario Occupational Exposure Limits under Regulation 833
Saskatchewan	OEL STEL (ppm)	200 ppm
Saskatchewan	OEL TWA (ppm)	150 ppm
acetone (67-64-1)		
Alberta	OEL STEL (ppm)	500 ppm
Alberta	OEL TWA (ppm)	250 ppm
Alberta	Notations and remarks	eye irr; CNS impair; BEI
British Columbia	OEL STEL (ppm)	500 ppm
British Columbia	OEL TWA (ppm)	250 ppm
British Columbia	Notations and remarks	eye irr; CNS impair; BEI
Manitoba	OEL STEL (ppm)	500 ppm
Manitoba	OEL TWA (ppm)	250 ppm
Manitoba	Notations and remarks	eye irr; CNS impair; BEI
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	eye irr; CNS impair; BEI
Nova Scotia	OEL STEL (ppm)	500 ppm
Nova Scotia	OEL TWA (ppm)	250 ppm

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acetone (67-64-1)		
Nova Scotia	Notations and remarks	eye irr; CNS impair; BEI
Nunavut	OEL STEL (ppm)	500 ppm
Nunavut	OEL TWA (ppm)	250 ppm
Nunavut	Notations and remarks	eye irr; CNS impair; BEI
Northwest Territories	OEL STEL (ppm)	500 ppm
Northwest Territories	OEL TWA (ppm)	250 ppm
Northwest Territories	Notations and remarks	eye irr; CNS impair; BEI
Ontario	OEL STEL (ppm)	750 ppm
Ontario	OEL TWA (ppm)	500 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	eye irr; CNS impair; BEI
Saskatchewan	OEL STEL (ppm)	750 ppm
Saskatchewan	OEL TWA (ppm)	500 ppm

heptan-2-one (110-43-0)		
Saskatchewan	OEL STEL (ppm)	60 ppm
Saskatchewan	OEL TWA (ppm)	50 ppm

### 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

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Color	: Colorless liquid
Odor	: There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour: Fruity odour Characteristic odour Petroleum-like odour Sweet odour Aromatic odour Almost odourless Pleasant odour Mild odour Irritating/pungent odour
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	: > 35 °C
Flash point	: -17 °C
Auto-ignition temperature	: No data available

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Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: No data available
Vapor pressure at 50 °C	: No data available
Relative density	: 1.045 - 1.065
Specific gravity / density	: ≈ 1.055 (1.045 - 1.065) g/cm <sup>3</sup>
Solubility	: No data available
Log Pow	: No data available
Viscosity, dynamic	: ≈
Explosion limits	: No data available

### 9.2. Other information

As Packaged Regulatory VOC	: 296 g/l (2.47 lb/gal)
As Packaged Actual VOC	: 162 g/l (1.35 lb/gal)
As Applied Regulatory VOC	: 248 g/l (2.07 lb/gal)
As Applied Actual VOC	: 122 g/l (1.02 lb/gal)
Water Content	0 wt%
Exempt Compounds by volume	: 45.3 vol %
Exempt Compounds by weight	: 46.5 wt%
Volatiles	: 61.8 wt%
% HAPS	: 0.3 wt%
Percent Solids	: 38.2 wt%

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	: 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

<b>n-butyl acetate (123-86-4)</b>	
LD50 oral rat	10760 - 12789 mg/kg body weight (Equivalent or similar to OECD 423, Rat, Male/female, Experimental value, Oral)
LD50 dermal rabbit	14112 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Male/female, Experimental value, Dermal)
LC50 inhalation rat (ppm)	390 ppm/4h
LC50 inhalation rat (Vapors - mg/l/4h)	> 21 mg/l/4h (4 h, OECD Test Guideline 403, rat, vapours)
ATE CA (oral)	10760 mg/kg body weight
ATE CA (Dermal)	14112 mg/kg body weight
ATE CA (Gases)	390 ppmV/4h
<b>2-hydroxyethyl methacrylate (868-77-9)</b>	
LD50 oral rat	5050 mg/kg
ATE CA (oral)	5050 mg/kg body weight
<b>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) (104810-47-1)</b>	
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 (mg/l)	5800 mg/l (OECD Guideline 403, 14d, rat)
ATE CA (vapors)	5800 mg/l/4h
ATE CA (dust,mist)	5800 mg/l/4h

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<b>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)</b>	
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

<b>acetone (67-64-1)</b>	
LD50 oral rat	5800 mg/kg (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral)
LD50 dermal rabbit	20000 mg/kg (Equivalent or similar to OECD 402, Rabbit, Male, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	76 mg/l (Other, 4 h, Rat, Female, Experimental value, Inhalation (vapours))
ATE CA (oral)	5800 mg/kg body weight
ATE CA (Dermal)	20000 mg/kg body weight
ATE CA (vapors)	76 mg/l/4h
ATE CA (dust,mist)	76 mg/l/4h

<b>4-chlorobenzotrifluoride (98-56-6)</b>	
LD50 oral rat	13000 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Dermal)
LC50 inhalation rat (mg/l)	33 mg/l (4 h, Rat, Inhalation)
ATE CA (oral)	13000 mg/kg body weight
ATE CA (vapors)	33 mg/l/4h
ATE CA (dust,mist)	33 mg/l/4h

<b>heptan-2-one (110-43-0)</b>	
LD50 oral rat	1600 mg/kg body weight (Rat, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	> 16.7 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male/female, Experimental value, Inhalation (vapours), 14 day(s))
ATE CA (oral)	1600 mg/kg body weight
ATE CA (Gases)	4500 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	: Not classified
Reproductive toxicity	: Not classified

Specific target organ toxicity – single exposure : May cause drowsiness or dizziness.

<b>n-butyl acetate (123-86-4)</b>	
Specific target organ toxicity – single exposure	May cause drowsiness or dizziness.

<b>acetone (67-64-1)</b>	
Specific target organ toxicity – single exposure	May cause drowsiness or dizziness.

: Not classified

Specific target organ toxicity – 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	: Toxic to aquatic life with long lasting effects.
Aquatic acute	: Not classified

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Aquatic chronic : Toxic to aquatic life with long lasting effects.

<b>n-butyl acetate (123-86-4)</b>	
LC50 fish 1	18 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
LC50 fish 2	62 mg/l (Leuciscus idus, static system)
EC50 Daphnia 1	44 mg/l (48 h, Daphnia sp., Static system, Fresh water, Experimental value)
EC50 72h algae [mg/l] 1	674.7 mg/l (Desmodesmus subspicatus, Static system, Fresh water, Experimental value)
NOEC chronic crustacea	23 mg/l
BCF fish 1	15.3 (Calculated value)
Log Pow	2.3 (Test data, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Log Koc	1.268 - 1.844 (log Koc, SRC PCKOCWIN v2.0, QSAR)

<b>2-hydroxyethyl methacrylate (868-77-9)</b>	
LC50 fish 1	227 mg/l (Pimephales promelas, flow-through system)

<b>reaction mass of <math>\alpha</math>-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-<math>\omega</math>-hydroxypoly(oxyethylene) and <math>\alpha</math>-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-<math>\omega</math>-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) (104810-47-1)</b>	
LC50 fish 1	2.8 mg/l (96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 Daphnia 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)
Log Pow	4.6 (Experimental value, Equivalent or similar to OECD 117, 25 °C)

<b>acetone (67-64-1)</b>	
LC50 fish 1	5540 mg/l (EU Method C.1, 96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 96h algae (1)	> 7000 mg/l (Selenastrum capricornutum, Static system, Fresh water, Experimental value, Nominal concentration)
BCF fish 1	0.69 (Pisces)
BCF other aquatic organisms 1	3 (BCFWIN, Calculated value)
Log Pow	-0.24 (Test data)

<b>4-chlorobenzotrifluoride (98-56-6)</b>	
LC50 fish 1	11.4 mg/l (72 h, Lepomis macrochirus, Static system)
EC50 Daphnia 1	3.68 mg/l (48 h, Daphnia magna)
Log Pow	3.6

<b>heptan-2-one (110-43-0)</b>	
LC50 fish 1	131 mg/l (EPA OPP 72-1, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)
EC50 Daphnia 1	> 90.1 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, GLP)
EC50 72h algae [mg/l] 1	98.2 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)
EC50 72h algae [mg/l] (2)	75.5 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Biomass)
Log Koc	1.45 (log Koc, EU Method C.19, Experimental value)

### 12.2. Persistence and degradability

<b>n-butyl acetate (123-86-4)</b>	
Persistence and degradability	Readily biodegradable in water.
ThOD	2.21 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.46

<b>acetone (67-64-1)</b>	
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 <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.92 g O <sub>2</sub> /g substance
ThOD	2.2 g O <sub>2</sub> /g substance



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<b>acetone (67-64-1)</b>	
BOD (% of ThOD)	0.872 (20 day(s), Literature study)
<b>4-chlorobenzotrifluoride (98-56-6)</b>	
Persistence and degradability	Biodegradability in water: no data available.
<b>heptan-2-one (110-43-0)</b>	
Persistence and degradability	Readily biodegradable in water.
BOD (% of ThOD)	0.44
<b>12.3. Bioaccumulative potential</b>	
<b>n-butyl acetate (123-86-4)</b>	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
BCF fish 1	15.3 (Calculated value)
Log Pow	2.3 (Test data, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Log Koc	1.268 - 1.844 (log Koc, SRC PCKOCWIN v2.0, QSAR)
<b>reaction mass of <math>\alpha</math>-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-<math>\omega</math>-hydroxypoly(oxyethylene) and <math>\alpha</math>-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-<math>\omega</math>-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) (104810-47-1)</b>	
BCF fish 1	2658 - 3430 (502 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value)
Log Pow	4.6 (Experimental value, Equivalent or similar to OECD 117, 25 °C)
<b>acetone (67-64-1)</b>	
Bioaccumulative potential	Not bioaccumulative.
BCF fish 1	0.69 (Pisces)
BCF other aquatic organisms 1	3 (BCFWIN, Calculated value)
Log Pow	-0.24 (Test data)
<b>4-chlorobenzotrifluoride (98-56-6)</b>	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Log Pow	3.6
<b>heptan-2-one (110-43-0)</b>	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Log Koc	1.45 (log Koc, EU Method C.19, Experimental value)
<b>12.4. Mobility in soil</b>	
<b>n-butyl acetate (123-86-4)</b>	
Surface tension	0.0163 N/m (20 °C)
Ecology - soil	Low potential for adsorption in soil.
Log Koc	1.268 - 1.844 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Log Pow	2.3 (Test data, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
<b>reaction mass of <math>\alpha</math>-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-<math>\omega</math>-hydroxypoly(oxyethylene) and <math>\alpha</math>-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-<math>\omega</math>-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) (104810-47-1)</b>	
Log Pow	4.6 (Experimental value, Equivalent or similar to OECD 117, 25 °C)
<b>acetone (67-64-1)</b>	
Surface tension	0.0237 N/m
Ecology - soil	No (test)data on mobility of the substance available.
Log Pow	-0.24 (Test data)
<b>4-chlorobenzotrifluoride (98-56-6)</b>	
Log Pow	3.6
<b>heptan-2-one (110-43-0)</b>	
Surface tension	0.0591 N/m (21.6 °C, EU Method A.5: Surface tension)
Ecology - soil	Highly mobile in soil.
Log Koc	1.45 (log Koc, EU Method C.19, Experimental value)
<b>12.5. Other adverse effects</b>	
Ozone	: Not classified

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### 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 : II - Medium Danger  
TDG Primary Hazard Classes : 3 - Class 3 - Flammable Liquids  
Transport document description : 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 (Transportation of Dangerous Goods) : 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 per cent nitrocellulose if the nitrocellulose contains not more than 12.6 per cent 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. SOR/2014-306  
Explosive Limit and Limited Quantity Index : 5 L  
Excepted quantities (TDG) : E2  
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 5 L  
Marine pollutant : Yes (IMDG only)



#### 14.2. Transport information/DOT

#### Department of Transport

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

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

Hazard labels (DOT) : 3 - Flammable liquid



Dangerous for the environment : Yes

Marine pollutant : Yes



DOT Special Provisions (49 CFR 172.102) : B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.  
B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.  
IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).  
T2 - 1.5 178.274(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.  
TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, 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) : 60 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 220 L

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

Emergency Response Guide (ERG) Number : 128

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

#### n-butyl acetate (123-86-4)

Listed on the Canadian DSL (Domestic Substances List)

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

### 2-hydroxyethyl methacrylate (868-77-9)

Listed on the Canadian DSL (Domestic Substances List)

**reaction mass of  $\alpha$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- $\omega$ -hydroxypoly(oxyethylene) and  $\alpha$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- $\omega$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) (104810-47-1)**

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)

Listed on the Canadian DSL (Domestic Substances List)

### acetone (67-64-1)

Listed on the Canadian DSL (Domestic Substances List)

### 4-chlorobenzotrifluoride (98-56-6)

Listed on the Canadian DSL (Domestic Substances List)

Canada DSL & NDSL Flags    Substance was manufactured or imported after July 1, 1995

### heptan-2-one (110-43-0)

Listed on the Canadian DSL (Domestic Substances List)

## 15.2. International regulations

### n-butyl acetate (123-86-4)

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

### 2-hydroxyethyl methacrylate (868-77-9)

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

**reaction mass of  $\alpha$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- $\omega$ -hydroxypoly(oxyethylene) and  $\alpha$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- $\omega$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) (104810-47-1)**

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

### 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)

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

### acetone (67-64-1)

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

### 4-chlorobenzotrifluoride (98-56-6)

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

### heptan-2-one (110-43-0)

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

## SECTION 16: Other information

SDS Major/Minor : None  
Date of issue : 05-29-2018  
Revision date : 08-12-2019  
Supersedes : 08-09-2019

Full text of H-phrases:

H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
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.*