

Safety Data Sheet according to the Model Work Health and Safety Regulations Date of issue:20/07/2018 Revision date:03/05/2019

Supersedes: 20/07/2018

Version: 1.1

DRIVING SURFACE PERFECTION D	ate of issue:20/07/2018	Revision date:03/05/2019	Supersedes: 20/07/2018	Version: 1.1
SECTION 1: Identification : Pro	duct identifier and c	hemical identity		
1.1. Product identifier				
Product form	: Mixture			
Trade name	: RAPTOR LINER	R - WHITE		
Product code	: RLW/1, RLW/20			
1.2. Other means of identification				
Other means of identification	: Component of: I			
1.3. Recommended use of the che Recommended use		1 USE		
	: Coating			
1.4. Supplier's details				
Supplier U-POL AUSTRALIA PTY LIMITED Unit A, 16 - 20 Cassola Place Penrith, NSW 2750 - Australia T 02 4731 2655 - F 02 4731 2611 info@u-pol.co.nz - www.u-pol.com.au		Supplier U-POL NEW ZEALAND c/o Lindsay & Associates Unit H, 12 Amera Place, Manukau City 2013 - Ner T + 612 4731 2655 - F + technicalsupport@u-pol.	s East Tamaki w Zealand 612 4731 2611	
1.5. Emergency phone number				
Emergency number	: Australia (CHEN 764 766	MTREC): + (61) - 290372994 ; N	ew Zealand (National Poisons C	Centre): 0800
SECTION 2: Hazards identificat	tion			
2.1. Classification of the hazardou	us chemical			
Classification according to the model	Nork Health and Safety R	egulations (WHS Regulations))	
Flammable liquids, Category 2	H225			
Serious eye damage/eye irritation, Catego	ory 2A H319			
Skin sensitisation, Category 1	, H317			
Specific target organ toxicity — Single ex Category 3, Narcosis	posure, H336			
2.2. Label elements				
Hazard pictograms (GHS AU)	: 🔨	^		
Signal word (GHS AU)	: Danger			
Contains	0	%); n-butyl acetate (< 23 %); rea	action mass of $\alpha_{-3}/(3)/(2H)$	triazol-2-vl)-5-
Contains	tert-butyl-4-hydr 2-yl)-5-tert-butyl hydroxyphenyl)p pentamethyl-4-p	 a), in buy absolute (-20 /a), ioc oxyphenyl)propionyl-w-3 b), propionyl-w-3 b), propionyloxyphenyl)propionyl-w-3 b), propionyloxyphenyl)propionyl-w-3 b), propionyloxyphenyl)propionyl-w-3 b), propionyloxyphenyl)propionyl-w-3 b), propionyloxyphenyl)propionyl-w-3 b), propionyloxyphenyl)propionyl-w-3 b), propionyl-w-3 b), propionyl-w-3<!--</td--><td>poly(oxyethylene) and α-3-(3-(2) -(3-(2H-benzotriazol-2-yl)-5-tert < 5 %); reaction mass of bis(1,2, ,2,2,6,6-pentamethyl-4-piperidyl</td><td>H-benzotriazol- butyl-4- 2,6,6-</td>	poly(oxyethylene) and α-3-(3-(2) -(3-(2H-benzotriazol-2-yl)-5-tert < 5 %); reaction mass of bis(1,2, ,2,2,6,6-pentamethyl-4-piperidyl	H-benzotriazol- butyl-4- 2,6,6-
Hazard statements (GHS AU)	H317 - May cau H319 - Causes	ammable liquid and vapour. ise an allergic skin reaction. serious eye irritation. ise drowsiness or dizziness.		
Precautionary statements (GHS AU)	P261 - Avoid bro P264 - Wash ha P280 - Wear pro P337+P313 - If P501 - Dispose	vay from heat, open flames, spar eathing vapours, spray, fume. ands thoroughly after handling. otective clothing, protective glow eye irritation persists: Get medic of contents/container to hazardo n local, regional, national and/or	es, face protection. al advice/attention. bus or special waste collection p	oint, in
2.3. Other hazards				
No additional information available				

SECTION 3: Composition/information on ingredients

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Name	CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
acetone ()	67-64-1	5 - 23	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
n-butyl acetate ()	123-86-4	< 23	Flam. Liq. 3, H226 STOT SE 3, H336
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	< 5	Skin Sens. 1, H317 Aquatic Chronic 2, H411
reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate ()	1065336-91-5	< 5	Acute Tox. 5 (Oral), H303 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
solvent naphtha (petroleum), light aromatic ()	64742-95-6	< 5	Flam. Liq. 3, H226 Acute Tox. 5 (Oral), H303 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Other substances (not contributing to the classification of this product)		93.28 - 96.19	

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Call a poison center or a doctor if you feel unwell.
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. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Symptoms caused by exposure	
Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
4.3. Indication of any immediate medi	cal attention and special treatment needed
Other medical advice or treatment	: Treat symptomatically.
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the	substance or mixture
Fire hazard	: Highly flammable liquid and vapour.
5.3. 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.
Hazchemcode	: * 3YE
SECTION 6: Accidental release me	asures
	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment	: Safety glasses. Protective clothing. Gloves.
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing vapours,
	fume, spray. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	

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6.3.	Methods and material for containment and cleaning up		
For con	tainment	: Collect spillage.	
Method	s for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.	

SECTION 7: Handling and storage, including how the chemical may be safely used

7.1.	Precautions for safe handling			
Precau	tions 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 vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing vapours, spray, fume. Avoid contact with skin and eyes.	
Hygiene	e 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			
Technic	al 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	Special rules on packaging :		Keep only in original container.	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters - exposure standards

acetone (67-64-1)		
Australia	Local name	Acetone
Australia	TWA (mg/m³)	1185 mg/m ³
Australia	TWA (ppm)	500 ppm
Australia	STEL (mg/m ³)	2375 mg/m ³
Australia	STEL (ppm)	1000 ppm
New Zealand	Local name	Acetone
New Zealand	TWA (mg/m³)	1185 mg/m³
New Zealand	TWA (ppm)	500 ppm
New Zealand	STEL (mg/m ³)	2375 mg/m ³
New Zealand	STEL (ppm)	1000 ppm
New Zealand	Regulatory reference	Worplace Exposure Standards and Biological Exposure Indices, 9th Edition

n-butyl acetate (123-86-4)		
Australia	Local name	n-Butyl acetate
Australia	TWA (mg/m³)	713 mg/m ³
Australia	TWA (ppm)	150 ppm
Australia	STEL (mg/m³)	950 mg/m³
Australia	STEL (ppm)	200 ppm
New Zealand	Local name	n-Butyl acetate
New Zealand	TWA (mg/m³)	713 mg/m ³
New Zealand	TWA (ppm)	150 ppm
New Zealand	STEL (mg/m³)	950 mg/m³
New Zealand	STEL (ppm)	200 ppm
New Zealand	Regulatory reference	Worplace Exposure Standards and Biological Exposure Indices, 9th Edition

Exposure limit values for the other components

8.2. Monitoring

No additional information available

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8.3.	Appropriate engineering controls		
Approp	riate engineering controls	:	Ensure good ventilation of the work station.
8.4.	Personal protective equipment		
Materia	als for protective clothing		Impermeable clothing
Hand p	protection	:	Protective gloves
Eye pro	otection	:	Safety glasses
Skin ar	nd body protection	:	Wear suitable protective clothing
Respira	atory protection	:	In case of insufficient ventilation, wear suitable respiratory equipment
Enviror	nmental exposure controls	:	Avoid release to the environment.

SECTION 9: Physical and chemical properties				
Physical state	: Liquid			
Appearance				
	Viscous. Liquid.			
Colour	: No data available			
Odour	: No data available			
Odour threshold	: No data available			
рН	: No data available			
Relative evaporation rate (butylacetate=1)	: No data available			
Melting point / Freezing point	: Melting point : Not applicable			
Boiling point	: > 35 ℃			
Flash point	: <0°C			
Auto-ignition temperature	: No data available			
Flammability (solid, gas)	: No data available			
Vapour pressure	: No data available			
Relative density	: No data available			
Density	: Density : ≈ 1.17 (1.15 - 1.19) g/cm³			
Solubility	: insoluble in water. Soluble in aromatic hydrocarbons.			
Log Pow	: No data available			
Viscosity, kinematic	: ≈ 6837.607 mm²/s			
Viscosity, dynamic	: ≈ 8000 (7000 - 9000) cP (20°C)			
Explosive properties	: No data available			
Explosive limits	: No data available			
Minimum ignition energy	: No data available			
VOC content - Actual	: 222 g/l			
VOC content	: 428 g/l			
VOC content - Regulatory	: 300 g/l			
SECTION 10: Stability and reactivit	у			
Reactivity	: Highly flammable liquid and vapour. Highly flammable liquid and vapour.			
Chemical stability	: Stable under normal conditions.			
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.			
Conditions to avoid	: Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.			
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.			

SECTION 11: Toxicological information			
Acute toxicity (oral)	: Not classified		
Acute toxicity (dermal)	: Not classified		
Acute toxicity (inhalation)	: Not classified		
acetone (67-64-1)			
acetone (67-64-1)			
LD50 oral rat	5800 mg/kg (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral)		

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acetone (67-64-1)	
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))
solvent naphtha (petroleum), light aromatic (64	742-95-6)
LD50 oral rat	3592 mg/kg (OECD Test Guideline 401, rat)
LD50 dermal rabbit	> 3160 mg/kg (OECD Test Guideline 402)
LC50 inhalation rat (Vapours - mg/l/4h)	> 6.193 mg/l/4h (4 h, OECD Test Guideline 403, vapours)
n-butyl acetate (123-86-4)	
LD50 oral rat	10760 - 12789 mg/kg bodyweight (Equivalent or similar to OECD 423, Rat, Male/female, Experimental value, Oral)
LD50 dermal rabbit	14112 mg/kg bodyweight (Equivalent or similar to OECD 402, Rabbit, Male/female, Experimental value, Dermal)
LC50 inhalation rat (ppm)	390 ppm/4h
LC50 inhalation rat (Vapours - mg/l/4h)	> 21 mg/l/4h (4 h, OECD Test Guideline 403, rat, vapours)
	-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H- propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- (104810-47-1)
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)
reaction mass of bis(1,2,2,6,6-pentamethyl-4-pi	peridyl) 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,
Skin corrosion/irritation :	Not classified
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation :	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity :	Not classified
STOT-single exposure :	May cause drowsiness or dizziness.
STOT-repeated exposure :	Not classified
Aspiration hazard :	Not classified
RAPTOR LINER - WHITE	

SECTION 12: Ecological information

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request

12.1. Ecotoxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
acetone (67-64-1)	
LC50 fish 1	5540 mg/l (EU Method C.1, 96 h, Salmo gairdneri, 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)
solvent naphtha (petroleum), light arc	omatic (64742-95-6)
Log Pow	2.1 - 6
n-butyl acetate (123-86-4)	
LC50 fish 1	18 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
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n-butyl acetate (123-86-4)	
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)
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)
hydroxyphenyl)propionyloxypoly(oxyethylene LC50 fish 1	2.8 mg/l (96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value,
EC50 Daphnia 1	Nominal concentration) 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)

12.2. Persistence and degradability

acetone (67-64-1)	
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.43 g O ₂ /g substance
Chemical oxygen demand (COD)	1.92 g O ₂ /g substance
ThOD	2.2 g O ₂ /g substance
BOD (% of ThOD)	0.872 (20 day(s), Literature study)
solvent naphtha (petroleum), light aromatic (6)4742-95-6)
Persistence and degradability	May cause long-term adverse effects in the environment.
n-butyl acetate (123-86-4)	
Persistence and degradability	Readily biodegradable in water.
ThOD	2.21 g O ₂ /g substance
BOD (% of ThOD)	0.46
12.3. Bioaccumulative potential	
acetone (67-64-1)	

acetone (67-64-1)	
BCF fish 1	See section 12.1 on ecotoxicology
BCF other aquatic organisms 1	See section 12.1 on ecotoxicology
Log Pow	See section 12.1 on ecotoxicology
Bioaccumulative potential	Not bioaccumulative.
solvent naphtha (petroleum), light aromatic (6	64742-95-6)
Log Pow	See section 12.1 on ecotoxicology
Bioaccumulative potential	Not established.
n-butyl acetate (123-86-4)	
BCF fish 1	See section 12.1 on ecotoxicology
Log Pow	See section 12.1 on ecotoxicology
Log Koc	See section 12.1 on ecotoxicology
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
	-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H- yl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- e) (104810-47-1)
BCF fish 1	See section 12.1 on ecotoxicology
Log Pow	See section 12.1 on ecotoxicology

12.4. Mobility in soil

acetone (67-64-1)	
Surface tension	0.0237 N/m
Log Pow	See section 12.1 on ecotoxicology
Ecology - soil	No (test)data on mobility of the substance available.

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solvent naphtha (petroleum), light aroma	ntic (64742-95-6)
Log Pow	See section 12.1 on ecotoxicology
n-butyl acetate (123-86-4)	
Surface tension	0.0163 N/m (20 °C)
Log Pow	See section 12.1 on ecotoxicology
Log Koc	See section 12.1 on ecotoxicology
Ecology - soil	Low potential for adsorption in soil.
	-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H- bhenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- ylene) (104810-47-1)
Log Pow	See section 12.1 on ecotoxicology
2.5. Other adverse effects	
Dzone	: Not classified
Other adverse effects	: No additional information available
RAPTOR LINER - WHITE	
Fluorinated greenhouse gases	False
acetone (67-64-1)	
Fluorinated greenhouse gases	False
solvent naphtha (petroleum), light aroma	
Fluorinated greenhouse gases	False
n-butyl acetate (123-86-4)	
Fluorinated greenhouse gases	False
benzotriazol-2-yi)-5-tert-butyi-4-hydroxyp hydroxyphenyl)propionyloxypoly(oxyeth	ohenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- ylene) (104810-47-1)
hydroxyphenyl)propionyloxypoly(oxyeth Fluorinated greenhouse gases	ylene) (104810-47-1) False
hydroxyphenyl)propionyloxypoly(oxyeth Fluorinated greenhouse gases reaction mass of bis(1,2,2,6,6-pentameth	ylene) (104810-47-1)
hydroxyphenyl)propionyloxypoly(oxyeth Fluorinated greenhouse gases reaction mass of bis(1,2,2,6,6-pentameth Fluorinated greenhouse gases	ylene) (104810-47-1) False yl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5) False
hydroxyphenyl)propionyloxypoly(oxyeth Fluorinated greenhouse gases reaction mass of bis(1,2,2,6,6-pentameth Fluorinated greenhouse gases ECTION 13: Disposal considerat	ylene) (104810-47-1) False yl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5) False
hydroxyphenyl)propionyloxypoly(oxyeth Fluorinated greenhouse gases reaction mass of bis(1,2,2,6,6-pentameth Fluorinated greenhouse gases ECTION 13: Disposal considerat Regional legislation (waste)	ylene) (104810-47-1) False yl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5) False ions : Disposal must be done according to official regulations.
hydroxyphenyl)propionyloxypoly(oxyeth Fluorinated greenhouse gases reaction mass of bis(1,2,2,6,6-pentameth Fluorinated greenhouse gases SECTION 13: Disposal considerat regional legislation (waste) Vaste treatment methods	ylene) (104810-47-1) False yl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5) False ions : Disposal must be done according to official regulations. : Dispose of contents/container in accordance with licensed collector's sorting instructions.
hydroxyphenyl)propionyloxypoly(oxyeth Fluorinated greenhouse gases reaction mass of bis(1,2,2,6,6-pentameth Fluorinated greenhouse gases ECTION 13: Disposal considerat Regional legislation (waste)	ylene) (104810-47-1) False yl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5) False ions : Disposal must be done according to official regulations.
hydroxyphenyl)propionyloxypoly(oxyeth Fluorinated greenhouse gases reaction mass of bis(1,2,2,6,6-pentameth Fluorinated greenhouse gases ECTION 13: Disposal considerat Regional legislation (waste) Vaste treatment methods dditional information	ylene) (104810-47-1) False yl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5) False ions : Disposal must be done according to official regulations. : Dispose of contents/container in accordance with licensed collector's sorting instructions. : Flammable vapours may accumulate in the container.
hydroxyphenyl)propionyloxypoly(oxyeth Fluorinated greenhouse gases reaction mass of bis(1,2,2,6,6-pentameth Fluorinated greenhouse gases SECTION 13: Disposal considerat regional legislation (waste) Vaste treatment methods	ylene) (104810-47-1) False yl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5) False ions : Disposal must be done according to official regulations. : Dispose of contents/container in accordance with licensed collector's sorting instructions. : Flammable vapours may accumulate in the container.
hydroxyphenyl)propionyloxypoly(oxyeth Fluorinated greenhouse gases reaction mass of bis(1,2,2,6,6-pentameth Fluorinated greenhouse gases ECTION 13: Disposal considerat Regional legislation (waste) Vaste treatment methods Idditional information ECTION 14: Transport information 4.1. UN number	ylene) (104810-47-1) False yl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5) False ions : Disposal must be done according to official regulations. : Dispose of contents/container in accordance with licensed collector's sorting instructions. : Flammable vapours may accumulate in the container.
hydroxyphenyl)propionyloxypoly(oxyeth Fluorinated greenhouse gases reaction mass of bis(1,2,2,6,6-pentameth Fluorinated greenhouse gases ECTION 13: Disposal considerat Regional legislation (waste) Vaste treatment methods additional information ECTION 14: Transport information ECTION 14: Transport information IN-No. (ADG)	ylene) (104810-47-1) False yl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5) False ions : Disposal must be done according to official regulations. : Dispose of contents/container in accordance with licensed collector's sorting instructions. : Flammable vapours may accumulate in the container. on : 1263
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IMDG

Transport hazard class(es) (IMDG)	:
Danger labels (IMDG)	:

3 3

Safety Data Sheet

ccording to the Model Work Health and Safety Regulat	ions	
ΙΑΤΑ		
Transport hazard class(es) (IATA)	: 3	
Hazard labels (IATA)	: 3	
14.4. Packing group		
Packing group (ADG)	: 11	
Packing group (IMDG)	: 11	
Packing group (IATA)	: 11	
14.5. Environmental hazards		
Marine pollutant	: No	
14.6. Special precautions for user		
Specific storage requirement	: No data available	
Shock sensitivity	: No data available	
14.7. Additional information		
Other information	: No supplementary information available	
Transport by road and rail		
	: 1263	
UN-No. (ADG)		
Special provision (ADG)	: 163, 367	
Limited quantities (ADG)		
Packing instructions (ADG) Special packing provisions (ADG)	: P001, IBC02 : PP1	
Portable tank and bulk container instructions	: T4	
(ADG)		
Portable tank and bulk container special provisions (ADG)	: TP1, TP8, TP28	
Transport by sea		
UN-No. (IMDG)	: 1263	
Special provisions (IMDG)	: 163, 367	
Limited quantities (IMDG)	: 5L	
Excepted quantities (IMDG)	: E2	
Packing instructions (IMDG)	: P001	
Special packing provisions (IMDG)	: PP1	
IBC packing instructions (IMDG)	: IBC02	
Tank instructions (IMDG)	: T4	
Tank special provisions (IMDG)	: TP1, TP8, TP28	
EmS-No. (Fire)	: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS	
EmS-No. (Spillage)	: S-E - SPILLAGE SCHEDULE Echo - FLAMMABLE LIQUIDS, FLOATING ON WATER	
Stowage category (IMDG)	: В	
Properties and observations (IMDG)	: Miscibility with water depends upon the composition.	
Air transport		
UN-No. (IATA)	: 1263	
PCA Excepted quantities (IATA)	: E2	
03/05/2019	EN (English)	8/9
55,55,2010	(9//0/)	0,9

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according to the Model Work Health and Safety Regulations

PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3, A72, A192
ERG code (IATA)	: 3L
, , , , , , , , , , , , , , , , , , ,	
• • •	: * 3YE
Hazchemcode	. STE
SECTION 15: Regulatory information	n
15.1. Safety, health and environmental re	gulations/legislation specific for the substance or mixture
No additional information available	
Hazardous Substances and New Organisms	Act
HSNO Approval Number	: HSR002662
Group standard	: Surface coatings and colourants
15.2. International agreements	
No additional information available	
SECTION 16: Any other relevant info	brmation
Revision date	: 03/05/2019
Classification:	
Flam. Liq. 2	H225
Eye Irrit. 2A	H319
Skin Sens. 1	H317
STOT SE 3	H336
Full text of H-statements:	
Acute Tox. 5 (Oral)	Acute toxicity (oral), Category 5
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H303	May be harmful if swallowed
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H226	May cause drowsinges or dizzinges

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 Australia U-POL

For professional use only.

For professional use only. The information contained within this Safety Data Sheet (SDS) is believed to be correct as of the date issued however it is subject to change from time to time. It does not purport to be all inclusive or exhaustive and shall only be used as a guide. U-POL makes no warranties, expressed or implied, including but not limited to, any implied warranty of fitness for a given purpose or usage. It is the Buyers responsibility to ensure the suitability of the products for their own use and to check the information is up to date. U-POL cannot be held responsible for the suitability of use for any of its products, considering the wide range of factors such as application, substrates and handling methods. Since these conditions of use are outside of our control, the company shall not be held liable for any damage resulting from handling or from contact with the product detailed. Moreover, addition of reducers, hardeners or other additives over and above U-POL's recommendations for use, may substantially alter the composition and hazards of the product. U-POL data sheets are available via the U-POL website at WWW.U-POL.COM.

H336



Safety Data Sheet according to the Model Work Health and Safety Regulations Date of issue:03/02/2017 Revision date:03/05/2019

Supersedes: 07/12/2018

Version: 1.3

DRIVING SURFACE PERFECTION Da	ate of issue:03/02/2017	Revision date:03/05/2019	Supersedes: 07/12/2018	Version: 1.3
SECTION 1: Identification : Proc	duct identifier and	chemical identity		
1.1. Product identifier				
Product form	: Mixture			
Trade name	: RAPTOR HAR	DENER		
Product code	: RLH/250, RLH			
	. KEN/200, KEN/	, , , , , , , , , , , , , , , , , , ,		
1.2. Other means of identification				
Other means of identification	: Component of:	RLB/S1, RLT/S1, RLB/S4, RLB/	S1, RLW/S4	
1.3. Recommended use of the che	mical and restrictions o	on use		
Recommended use	: Coating			
1.4. Supplier's details				
Supplier		Supplier		
U-POL AUSTRALIA PTY LIMITED		U-POL NEW ZEALAND	LIMITED	
Unit A, 16 - 20 Cassola Place		c/o Lindsay & Associates		
Penrith, NSW 2750 - Australia		Unit H, 12 Amera Place, Manukau City 2013 - Ne		
T 02 4731 2655 - F 02 4731 2611 info@u-pol.co.nz - www.u-pol.com.au		T + 612 4731 2655 - F +		
<u></u>		technicalsupport@u-pol.		
1.5. Emergency phone number				
Emergency number	: Australia (CHF	MTREC): + (61) - 290372994 ; N	lew Zealand (National Poisons (Centre): 0800
	764 766			
SECTION 2: Hazards identificat	ion			
2.1. Classification of the hazardou	s chemical			
Classification according to the model V	Vork Health and Safety I	Regulations (WHS Regulations)	
Flammable liquids, Category 3	H226			
Acute toxicity (inhalation:vapour) Category				
Skin corrosion/irritation, Category 2	H315			
Skin sensitisation, Category 1	H317			
Specific target organ toxicity — Single exp				
Category 3, Respiratory tract irritation				
Specific target organ toxicity — Repeated	H373			
exposure, Category 2				
2.2. Label elements				
Hazard pictograms (GHS AU)		\wedge		
	بلد			
	(()			
Signal word (CLIS ALI)	. Morning	• •		
Signal word (GHS AU)	: Warning	diiopovonote elizerre (00, to 1	(), other hon-sets (F 00.0())	uppt perture
Contains	: nexamethylene (petroleum), lic	e diisocyanate oligomers (23-43 % ht aromatic (< 5 %); hexamethyle	ه), etnyidenzene (5 - 23 %); sol ene-di-isocyanate (< 5 %)	vent napntha
Hazard statements (GHS AU)	(1)/ 0	able liquid and vapour.	/	
	H315 - Causes	skin irritation.		
	H317 - May ca H332 - Harmfu	use an allergic skin reaction.		
		use respiratory irritation.		
		use damage to organs (hearing o	organs) through prolonged or rep	peated exposure
	(if inhaled).			
Precautionary statements (GHS AU)		way from heat, hot surfaces, ope	n flames, sparks. No smoking.	
		breathe spray, vapours. ands thoroughly after handling.		
		ace protection, protective clothing	, protective gloves.	
	P303+P361+P	353 - IF ON SKIN (or hair): Take		d clothing.
	Rinse skin with			
Additional hazard statements (GHS AU)		POISON CENTER/doctor if you fe eated exposure may cause skin		
. ,	. Au 1000 - Rep	Calou exposure may cause SKIII (aryness or clacking.	
2.3. Other hazards				
No additional information available				

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SECTION 3: Composition/information on ir	ngredients		
Name	CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
hexamethylene diisocyanate oligomers ()	28182-81-2	23-43	Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 STOT SE 3, H335
ethylbenzene ()	100-41-4	5 - 23	Flam. Liq. 2, H225 Acute Tox. 5 (Oral), H303 Acute Tox. 4 (Inhalation:vapour), H332 STOT RE 2, H373 Asp. Tox. 1, H304
n-butyl acetate	123-86-4	< 5	Flam. Liq. 3, H226 STOT SE 3, H336
solvent naphtha (petroleum), light aromatic ()	64742-95-6	< 5	Flam. Liq. 3, H226 Acute Tox. 5 (Oral), H303 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
hexamethylene-di-isocyanate ()	822-06-0	< 5	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335
Other substances (not contributing to the classification of this product)		>= 58.44	

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Symptoms caused by exposure	
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
4.3. Indication of any immediate medica	I attention and special treatment needed
Other medical advice or treatment	: Treat symptomatically.
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the su	bstance or mixture
Fire hazard	: Flammable liquid and vapour.
5.3. Special protective equipment and p	recautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Hazchemcode	: 3YE
SECTION 6: Accidental release mea	sures
	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment	: Safety glasses. Protective clothing. Gloves.
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe vapours, spray, fume. Avoid contact with skin and eyes.

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6.1.2.	For emergency responders	
Protect	tive equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2.	Environmental precautions	
Avoid r	elease to the environment.	
6.3.	Methods and material for contai	inment and cleaning up
For con	ntainment	: Contain released product, pump into suitable containers. Collect spillage.
Method	ds for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
SECT	FION 7: Handling and storage	e, including how the chemical may be safely used
SEC1 7.1.	FION 7: Handling and storag Precautions for safe handling	e, including how the chemical may be safely used
7.1.		 e, including how the chemical may be safely used 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 vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Do not breathe vapours, spray, fume. Use only outdoors or in a well-ventilated area. Avoid contact wit skin and eyes.
7.1. Precau	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 vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Do not breathe vapours, spray, fume. Use only outdoors or in a well-ventilated area. Avoid contact with the container.
7.1. Precau	Precautions for safe handling utions 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 vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Do not breathe vapours, spray, fume. Use only outdoors or in a well-ventilated area. Avoid contact wit skin and eyes. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.1. Precau Hygien 7.2.	Precautions for safe handling itions for safe handling te measures	 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 vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Do not breathe vapours, spray, fume. Use only outdoors or in a well-ventilated area. Avoid contact wit skin and eyes. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

- 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 - exposure standards

ethylbenzene (100-41-4)		
Australia	Local name	Ethyl benzene
Australia	TWA (mg/m³)	434 mg/m ³
Australia	TWA (ppm)	100 ppm
Australia	STEL (mg/m ³)	543 mg/m ³
Australia	STEL (ppm)	125 ppm
New Zealand	Local name	Ethyl benzene
New Zealand	TWA (mg/m³)	434 mg/m ³
New Zealand	TWA (ppm)	100 ppm
New Zealand	STEL (mg/m ³)	543 mg/m ³
New Zealand	STEL (ppm)	125 ppm
New Zealand	Regulatory reference	Worplace Exposure Standards and Biological Exposure Indices, 9th Edition

hexamethylene-di-isocyanate (822-06-0)		
Australia	Local name	Hexamethylene diisocyanate
Australia	TWA (mg/m³)	0.02 mg/m ³
Australia	STEL (mg/m ³)	0.07 mg/m³
Australia	Remark (AU)	Sen - Respiratory and/or Skin Sensitiser.
New Zealand	Local name	Hexamethylene diisocyanate (Isocyanates)
New Zealand	TWA (mg/m³)	0.02 mg/m³
New Zealand	STEL (mg/m ³)	0.07 mg/m³
New Zealand	Regulatory reference	Worplace Exposure Standards and Biological Exposure Indices, 9th Edition

n-butyl acetate (123-86-4)		
Australia	Local name	n-Butyl acetate
Australia	TWA (mg/m³)	713 mg/m ³
Australia	TWA (ppm)	150 ppm

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according to the Model Work Health and Safety Regulations

n-butyl acetate (123-8	36-4)	
Australia	STEL (mg/m ³)	950 mg/m³
Australia	STEL (ppm)	200 ppm
New Zealand	Local name	n-Butyl acetate
New Zealand	TWA (mg/m ³)	713 mg/m³
New Zealand	TWA (ppm)	150 ppm
New Zealand	STEL (mg/m ³)	950 mg/m³
New Zealand	STEL (ppm)	200 ppm
New Zealand	Regulatory reference	Worplace Exposure Standards and Biological Exposure Indices, 9th Edition

Exposure limit values for the other components

8.2. Monitoring No additional information available 8.3. Appropriate engineering controls Appropriate engineering controls : Ensure good ventilation of the work station. 8.4. Personal protective equipment Materials for protective clothing : Impermeable clothing Hand protection : Protective gloves Eye protection : Safety glasses Skin and body protection : Wear suitable protective clothing Respiratory protection : [In case of inadequate ventilation] wear respiratory protection. Environmental exposure controls : Avoid release to the environment.

Physical state	: Liquid
Appearance	: Liquid.
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point / Freezing point	: Melting point : Not applicable
Boiling point	: No data available
Flash point	: 27 °C
Auto-ignition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Density	: Density : ≈ 0.97 (0.96 - 0.98) g/cm³
Solubility	: insoluble in water. soluble in most organic solvents.
Log Pow	: No data available
Viscosity, dynamic	: ≈
Explosive properties	: No data available
Explosive limits	: No data available
Minimum ignition energy	: No data available
VOC content - Regulatory	: No data available
Percent Solids	: 37.35 wt%

SECTION 10: Stability and reactivity

: Flammable liquid and vapour.Flammable liquid and vapour.

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Chamical stability		Stable under normal conditions
Chemical stability Possibility of hazardous reactions	 Stable under normal conditions. No dangerous reactions known under normal conditions of use. 	
	ions to avoid : Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.	
		roduced.
SECTION 11: Toxicological inform	ation	
Acute toxicity (oral)	: N	lot classified
Acute toxicity (dermal)	: N	lot classified
Acute toxicity (inhalation)	:	larmful if inhaled.
ATE AU (vapours)		13.543 mg/l/4h
ethylbenzene (100-41-4)		-
LD50 oral rat		3500 mg/kg (Rat, Male/female, Experimental value, Oral)
LD50 dermal rabbit		15432 mg/kg bodyweight (24 h, Rabbit, Male, Experimental value, Dermal)
LC50 inhalation rat (mg/l)		17.8 mg/l (4 h, Rat, Male, Experimental value, Inhalation (vapours))
hexamethylene-di-isocyanate (822-06-0)		
LD50 oral rat		746 mg/kg (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral)
LD50 dermal rabbit		599 mg/kg (Rabbit, Dermal)
n-butyl acetate (123-86-4)		
LD50 oral rat		10760 - 12789 mg/kg bodyweight (Equivalent or similar to OECD 423, Rat, Male/female, Experimental value, Oral)
LD50 dermal rabbit		14112 mg/kg bodyweight (Equivalent or similar to OECD 402, Rabbit, Male/female, Experimental value, Dermal)
LC50 inhalation rat (ppm)		390 ppm/4h
LC50 inhalation rat (Vapours - mg/l/4h)		> 21 mg/l/4h (4 h, OECD Test Guideline 403, rat, vapours)
solvent naphtha (petroleum), light aromat	tic (647	42-95-6)
LD50 oral rat		3592 mg/kg (OECD Test Guideline 401, rat)
LD50 dermal rabbit		> 3160 mg/kg (OECD Test Guideline 402)
LC50 inhalation rat (Vapours - mg/l/4h)		> 6.193 mg/l/4h (4 h, OECD Test Guideline 403, vapours)
hexamethylene diisocyanate oligomers (2	8182-8	1-2)
LD50 oral rat		> 2500 mg/kg (OECD Test Guideline 423, rat, female)
LD50 dermal rat		> 2000 mg/kg (OECD Test Guideline 402, rat, male/female)
LC50 inhalation rat (Dust/Mist - mg/l/4h)		0.39 mg/l/4h (OECD Test Guideline 403, rat, female, inhalation, dust/mist)
Skin corrosion/irritation	: (Causes skin irritation.
Serious eye damage/irritation	: N	Not classified
Respiratory or skin sensitisation	: N	<i>I</i> ay cause an allergic skin reaction.
Germ cell mutagenicity		Not classified
Carcinogenicity	: N	lot classified
Reproductive toxicity	: N	Not classified
STOT-single exposure	: N	Nay cause respiratory irritation.
STOT-repeated exposure		Aay cause damage to organs (hearing organs) through prolonged or repeated exposure (if nhaled).

SECTION 12: Ecological information

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request 12.1. Ecotoxicity

Ecology - general	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	Not classified
Chronic aquatic toxicity	Not classified
ethylbenzene (100-41-4)	
LC50 fish 1	4.2 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Salmo gairdneri, Semi-static system, Fresh water, Experimental value)

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ethylbenzene (100-41-4)		
EC50 Daphnia 1	2.1 (1.8 - 2.4) mg/l (US EPA, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)	
BCF fish 1	1 - 2.4 (Other, 6 week(s), Oncorhynchus kisutch, Flow-through system, Salt water, Experimental value)	
Log Pow	3.6 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C)	
Log Koc	2.71 (log Koc, PCKOCWIN v1.66, QSAR)	
hexamethylene-di-isocyanate (822-06-0)		
Log Pow	1.08 (QSAR)	
n-butyl acetate (123-86-4)		
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)	
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)	
solvent naphtha (petroleum), light aromatic (64742-95-6)		
Log Pow	2.1 - 6	

12.2. Persistence and degradability

ethylbenzene (100-41-4)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.44 g O ₂ /g substance (20d.)
Chemical oxygen demand (COD)	2.1 g O ₂ /g substance
ThOD	3.17 g O ₂ /g substance
hexamethylene-di-isocyanate (822-06-0)	
Persistence and degradability	Not readily biodegradable in water.
n-butyl acetate (123-86-4)	
Persistence and degradability	Readily biodegradable in water.
ThOD	2.21 g O ₂ /g substance
BOD (% of ThOD)	0.46
solvent naphtha (petroleum), light aromatic (64742-95-6)	
Persistence and degradability	May cause long-term adverse effects in the environment.
12.3. Bioaccumulative potential	
ethylbenzene (100-41-4)	
BCF fish 1	See section 12.1 on ecotoxicology
Log Pow	See section 12.1 on ecotoxicology
Log Koc	See section 12.1 on ecotoxicology
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
hexamethylene-di-isocyanate (822-06-0)	
Log Pow	See section 12.1 on ecotoxicology
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
n-butyl acetate (123-86-4)	
BCF fish 1	See section 12.1 on ecotoxicology
Log Pow	See section 12.1 on ecotoxicology

 Log Koc
 See section 12.1 on ecotoxicology

 Bioaccumulative potential
 Low potential for bioaccumulation (Log Kow < 4).</td>

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

 Log Pow
 See section 12.1 on ecotoxicology

 Bioaccumulative potential
 Not established.

 12.4.
 Mobility in soil

ethylbenzene (100-41-4)	
Surface tension	0.071 N/m (23 °C, 0.0582 g/l, EU Method A.5: Surface tension)
Log Pow	See section 12.1 on ecotoxicology

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ethylbenzene (100-41-4)	
Log Koc	See section 12.1 on ecotoxicology
Ecology - soil	Low potential for adsorption in soil. Toxic to soil organisms.
hexamethylene-di-isocyanate (822-06-0)	
Log Pow	See section 12.1 on ecotoxicology
Ecology - soil	Low potential for adsorption in soil.
n-butyl acetate (123-86-4)	
Surface tension	0.0163 N/m (20 °C)
Log Pow	See section 12.1 on ecotoxicology
Log Koc	See section 12.1 on ecotoxicology
Ecology - soil	Low potential for adsorption in soil.
solvent naphtha (petroleum), light aroma	tic (64742-95-6)
Log Pow	See section 12.1 on ecotoxicology
12.5. Other adverse effects	
Ozone	: Not classified
Other adverse effects	: No additional information available
RAPTOR HARDENER	False
Fluorinated greenhouse gases	
ethylbenzene (100-41-4)	
Fluorinated greenhouse gases	False
hexamethylene-di-isocyanate (822-06-0)	
Fluorinated greenhouse gases	False
n-butyl acetate (123-86-4)	
Fluorinated greenhouse gases	False
solvent naphtha (petroleum), light aroma	tic (64742-95-6)
Fluorinated greenhouse gases	False
hexamethylene diisocyanate oligomers (2	28182-81-2)
Fluorinated greenhouse gases	False
SECTION 13: Disposal considerati	
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 vapours may accumulate in the container.
SECTION 14: Transport information	bn
14.1. UN number	
UN-No. (ADG)	: 1263
UN-No. (IMDG)	: 1263
UN-No. (IATA)	: 1263
14.2. Proper Shipping Name - Addition	
Proper Shipping Name (ADG)	: PAINT RELATED MATERIAL
Proper Shipping Name (IMDG)	: PAINT RELATED MATERIAL
Proper Shipping Name (IATA)	: Paint
14.3. Transport hazard class(es)	
ADG	
Transport hazard class(es) (ADG)	: 3
	_



IMDG

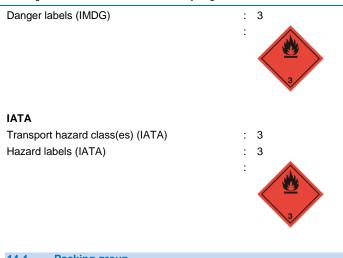
Transport hazard class(es) (IMDG)

Danger labels (ADG)

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14.4. Packing group	
Packing group (ADG)	: 111
Packing group (IMDG)	: 111
Packing group (IATA)	: III
14.5. Environmental hazards	
Marine pollutant	: No
14.6. Special precautions for user	
Specific storage requirement	: No data available
Shock sensitivity	: No data available
14.7. Additional information	
Other information	: No supplementary information available
Transport by road and rail	
UN-No. (ADG)	: 1263
Special provision (ADG)	: 163, 223
Limited quantities (ADG)	: 51
Packing instructions (ADG)	: P001, IBC03, LP01
Special packing provisions (ADG)	: PP1
Portable tank and bulk container instructions (ADG)	: T2
Portable tank and bulk container special provisions (ADG)	: TP1, TP29
Transport by sea	
UN-No. (IMDG)	: 1263
Special provisions (IMDG)	: 163, 223, 955
Limited quantities (IMDG)	: 5L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T2
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage)	: S-E - SPILLAGE SCHEDULE Echo - FLAMMABLE LIQUIDS, FLOATING ON WATER
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Miscibility with water depends upon the composition.
Air transport	

UN-No. (IATA)

: 1263

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PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3, A72, A192
ERG code (IATA)	: 3L
, ,	
14.8. Hazchem or Emergency Action Cod	
Hazchemcode	: 3YE
SECTION 15: Regulatory information	h
	gulations/legislation specific for the substance or mixture
No additional information available	J
Hazardous Substances and New Organisms	Act
HSNO Approval Number	: HSR002662
Group standard	: Surface coatings and colourants
ethylbenzene (100-41-4)	
Hazardous Substances and New Organisms	Act
HSNO Approval Number	: HSR001151
15.2. International agreements	
No additional information available	
SECTION 16: Any other relevant info	ormation
Revision date	: 03/05/2019
Classification:	
Flam. Liq. 3	H226
Acute Tox. 4 (Inhalation:vapour)	H332
Skin Irrit. 2	H315
Skin Sens. 1	H317
STOT SE 3	H335
STOT RE 2	H373
Full text of H-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Acute Tox. 5 (Oral)	Acute toxicity (oral), Category 5
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H303	May be harmful if swallowed
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
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H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

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