

Safety Data Sheet

according to the Model Work Health and Safety Regulations

E PERFECTION Date of issue:10/01/2017 Revision date:03/05/2019 Supersedes: 04/05/2017 Version: 2.1

SECTION 1: Identification: Product identifier and chemical identity

1.1. Product identifier

Product form : Mixture

Trade name : RAPTOR ADHESION PROMOTER

Product code : RPTAP/AL

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Coatings and paints, thinners, paint removers

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 LIMITED c/o Lindsay & Associates Unit H, 12 Amera Place, East Tamaki Manukau City 2013 - New Zealand T + 612 4731 2655 - F + 612 4731 2611 technicalsupport@u-pol.com - www.u-pol.com

1.5. Emergency phone number

Emergency number : Australia (CHEMTREC): + (61) - 290372994 ; New Zealand (National Poisons Centre): 0800

764 766

SECTION 2: Hazards identification

2.1. Classification of the hazardous chemical

Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Flammable aerosols, Category 1 H222
Skin corrosion/irritation, Category 2 H315
Reproductive toxicity, Category 2 H361
Specific target organ toxicity — Single exposure, H336

Category 3, Narcosis

Specific target organ toxicity — Repeated F

exposure, Category 2

H373

2.2. Label elements

Hazard pictograms (GHS AU)







Signal word (GHS AU) : Danger

Contains : toluene (43 - 63 %); acetone (5 - 23 %); propan-2-ol (< 5 %)

Hazard statements (GHS AU) : H222 - Extremely flammable aerosol.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

H361 - Suspected of damaging fertility or the unborn child.

H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements (GHS AU) : P210 - Keep away from heat, hot surfaces, open flames, sparks. No smoking. P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.
P261 - Avoid breathing fume, spray, vapours.
P263 - Avoid contact during pregnancy/while nursing.

P264 - Wash hands thoroughly after handling.

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

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

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

Additional hazard statements (GHS AU) : AUH066 - Repeated exposure may cause skin dryness or cracking.

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)
toluene ()	108-88-3	43 - 63	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
acetone ()	67-64-1	5 - 23	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
propan-2-ol ()	67-63-0	< 5	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Other substances (not contributing to the classification of this product)		>= 99.99	

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation 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 : Irritation.

4.3. Indication of any immediate medical 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 : Extremely flammable aerosol.

Explosion hazard : Pressurised container: May burst if heated.

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective 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. Do not breathe vapours,

spray, fume. 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

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain released product, pump into suitable containers. Collect spillage.

Methods for cleaning up : Mechanically recover the product. Notify authorities if product enters sewers or public waters.

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

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. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe vapours, spray, fume. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.

Hygiene measures : Wash contamin

: 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

Storage conditions

: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked

up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Storage temperature : < 25 °C

Special rules on packaging : Keep only in original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters - exposure standards

toluene (108-88-3)		
Australia	Local name	Toluene
Australia	TWA (mg/m³)	191 mg/m³
Australia	TWA (ppm)	50 ppm
Australia	STEL (mg/m³)	574 mg/m³
Australia	STEL (ppm)	150 ppm
Australia	Remark (AU)	Sk - Absorption through the skin may be a significant source of exposure.
New Zealand	Local name	Toluene (Toluol)
New Zealand	TWA (mg/m³)	188 mg/m³
New Zealand	TWA (ppm)	50 ppm
New Zealand	Remark (NZ)	skin (Skin absorption)
New Zealand	Regulatory reference	Worplace Exposure Standards and Biological Exposure Indices, 8th Edition

propan-2-ol (67-63-0)		
Australia	Local name	Isopropyl alcohol
Australia	TWA (mg/m³)	983 mg/m³
Australia	TWA (ppm)	400 ppm
Australia	STEL (mg/m³)	1230 mg/m³
Australia	STEL (ppm)	500 ppm
New Zealand	Local name	Isopropyl alcohol
New Zealand	TWA (mg/m³)	983 mg/m³
New Zealand	TWA (ppm)	400 ppm
New Zealand	STEL (mg/m³)	1230 mg/m³
New Zealand	STEL (ppm)	500 ppm
New Zealand	Regulatory reference	Worplace Exposure Standards and Biological Exposure Indices, 8th Edition

acetone (67-64-1)		
Australia	Local name	Acetone
Australia	TWA (mg/m³)	1185 mg/m³
Australia	TWA (ppm)	500 ppm
Australia	STEL (mg/m³)	2375 mg/m³
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/m³)	2375 mg/m³
New Zealand	STEL (ppm)	1000 ppm

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acetone (67-64-1)		
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.

SECTION 9: Physical and chemical properties

Physical state : Liquid Appearance : :

. Aerosol.

Colour : No data available
Odour : No data available
Odour threshold : No data available
pH : 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 : No data available
Auto-ignition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative density : No data available
Density : Density : 0.772 g/cm³

Solubility : insoluble in water. soluble in most organic solvents.

Log Pow : No data available

Viscosity, dynamic : ≈

Explosive properties : Pressurised container: May burst if heated.

Explosive limits : No data available Minimum ignition energy : No data available

VOC content : 762 g/l

VOC content - Regulatory : No data available

SECTION 10: Stability and reactivity

Reactivity : Extremely flammable aerosol. Pressurised container: May burst if heated. Extremely flammable

aerosol. Pressurised container: May burst if heated.

Chemical stability : Stable under normal conditions.

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

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

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

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		information	

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

toluene (108-88-3)	
LD50 oral rat	5580 mg/kg bodyweight (Equivalent or similar to EU Method B.1: Acute Toxicity (Oral), Rat, Male, Experimental value, Oral (one dose))
LD50 dermal rabbit	> 5000 mg/kg bodyweight (Other, 24 h, Rabbit, Male, Experimental value, Dermal)
LC50 inhalation rat (Vapours - mg/l/4h)	25.7 mg/l/4h (Equivalent or similar to OECD 403, 4 h, Rat, Male, Experimental value, Inhalation (vapours))
propan-2-ol (67-63-0)	
LD50 oral rat	5840 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	16400 ml/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 14 day(s))
LC50 inhalation rat (ppm)	> 10000 ppm (Equivalent or similar to OECD 403, 6 h, Rat, Male/female, Experimental value, Inhalation (vapours), 14 day(s))
acetone (67-64-1)	
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))

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

STOT-single exposure : May cause drowsiness or dizziness.

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

Aspiration hazard : Not classified

<u> </u>	
RAPTOR ADHESION PROMOTER	
Vaporizer	Aerosol

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

Ecotoxicity

BCF other aquatic organisms 1

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

: Not classified

Acute aquatic toxicity Chronic aquatic toxicity : Not classified

toluene (108-88-3)	
LC50 fish 1	5.5 mg/l (96 h, Oncorhynchus kisutch, Flow-through system, Fresh water, Experimental value)
BCF fish 1	90 (72 h, Leuciscus idus, Static system, Fresh water, Experimental value)
Log Pow	2.73 (Experimental value, 20 °C)
propan-2-ol (67-63-0)	
LC50 fish 1	9640 - 10000 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)
Log Pow	0.05 (Weight of evidence approach, 25 °C)
Log Koc	0.185 - 0.541 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
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)

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3 (BCFWIN, Calculated value)

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acetone (67-64-1)	
Log Pow	-0.24 (Test data)

12.2. Persistence and degradability

toluene (108-88-3)		
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	2.15 g O ₂ /g substance	
Chemical oxygen demand (COD)	2.52 g O₂/g substance	
ThOD	3.13 g O ₂ /g substance	
BOD (% of ThOD)	0.69	

,		
propan-2-ol (67-63-0)		
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	1.19 g O ₂ /g substance	
Chemical oxygen demand (COD)	2.23 g O ₂ /g substance	
ThOD	2.4 g O₂/g substance	

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)

12.3. Bioaccumulative potential

toluene (108-88-3)	
BCF fish 1	See section 12.1 on ecotoxicology
Log Pow	See section 12.1 on ecotoxicology
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
nronan-2-ol (67-63-0)	

propan-2-ol (67-63-0)	
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).
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.

12.4. Mobility in soil

toluene (108-88-3)	
Surface tension	27.73 N/m (25 °C)
Log Pow	See section 12.1 on ecotoxicology
Ecology - soil	Low potential for adsorption in soil.
propan-2-ol (67-63-0)	
Surface tension	0.021 N/m (25 °C)
Log Pow	See section 12.1 on ecotoxicology
Log Koc	See section 12.1 on ecotoxicology
Ecology - soil	Highly mobile in soil.
acetone (67-64-1)	
Surface tension	0.0237 N/m

Ecology - soil 12.5. Other adverse effects

Log Pow

Ozone : Not classified

Other adverse effects : No additional information available

RAPTOR ADHESION PROMOTER	
Fluorinated greenhouse gases	False

No (test)data on mobility of the substance available.

See section 12.1 on ecotoxicology

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toluene (108-88-3)	
Fluorinated greenhouse gases	False
propan-2-ol (67-63-0)	
Fluorinated greenhouse gases	False
acetone (67-64-1)	
Fluorinated greenhouse gases	False

SECTION 13: Disposal considerations

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.

SECTION 14: Transport information

14.1. UN number

UN-No. (ADG) : 1950 UN-No. (IMDG) : 1950 UN-No. (IATA) : 1950

14.2. Proper Shipping Name - Addition

Proper Shipping Name (ADG) : AEROSOLS
Proper Shipping Name (IMDG) : AEROSOLS

Proper Shipping Name (IATA) : Aerosols, flammable

14.3. Transport hazard class(es)

ADG

Transport hazard class(es) (ADG) : 2.1
Danger labels (ADG) : 2.1

:



IMDG

Transport hazard class(es) (IMDG) : 2.1
Danger labels (IMDG) : 2.1

. 2.



IATA

Transport hazard class(es) (IATA) : 2.1 Hazard labels (IATA) : 2.1

:



14.4. Packing group

Packing group (ADG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Marine pollutant : No

14.6. Special precautions for user

Specific storage requirement : No data available

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Shock sensitivity : No data available

14.7. Additional information

Other information : No supplementary information available

Transport by road and rail

UN-No. (ADG) : 1950

Special provision (ADG) : 63, 190, 277, 327, 344

Limited quantities (ADG) : See SP 277
Packing instructions (ADG) : P207, LP02
Special packing provisions (ADG) : PP87, L2

Transport by sea

UN-No. (IMDG) : 1950

Special provisions (IMDG) : 63, 190, 277, 327, 344, 381, 959

Packing instructions (IMDG) : P207, LP200 Special packing provisions (IMDG) : PP87, L2

EmS-No. (Fire) : F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES

EmS-No. (Spillage) : S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE)

Stowage category (IMDG) : None

Air transport

UN-No. (IATA) : 1950 PCA Excepted quantities (IATA) : E0 PCA Limited quantities (IATA) : Y203 PCA limited quantity max net quantity (IATA) : 30kgG PCA packing instructions (IATA) : 203 : 75kg PCA max net quantity (IATA) CAO packing instructions (IATA) : 203 CAO max net quantity (IATA) : 150kg

Special provisions (IATA) : A145, A167, A802

ERG code (IATA) : 10L

14.8. Hazchem or Emergency Action Code

Hazchemcode : Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

No additional information available

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR002515 Group standard : Aerosols

ethylbenzene (100-41-4)

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR001151

xylene (1330-20-7)

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR000983

15.2. International agreements

No additional information available

SECTION 16: Any other relevant information

Revision date : 03/05/2019

Classification:

Flam. Aerosol 1	H222
Skin Irrit. 2	H315

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Repr. 2	H361
STOT SE 3	H336
STOT RE 2	H373
Full text of H-statements:	
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Aerosol 1	Flammable aerosols, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

SDS Australia U-POL

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