

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SDS Ref. (EU): REPAL

Date of issue: 28/06/2018 Revision date: 28/02/2019 Supersedes: 28/06/2018 Version: 3.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

: 2K RAPTOR ANTI CORROSIVE EPOXY PRIMER AEROSOL Trade name

Product code : RFP/AI Vaporizer : Aerosol Product group : Aerosol

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

Use of the substance/mixture : Coatings and paints, thinners, paint removers

Function or use category : Aerosol

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

U-POL LIMITED

Denington Road, Wellingborough Northants. NN8 2QH - UK T +44 (0) 1933 230310

technicalsupport@u-pol.com - www.u-pol.com

1.4. Emergency telephone number

Emergency number : CHEMTREC - +44 (0) 870 8200418 (24 hrs)

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	NHS England, Scotland & Wales	-	Call 111 or a Doctor	In Northern Ireland, contact your local GP or pharmacist during normal hours (www.gpoutofhours.hscni.net)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aerosol, Category 1 H222;H229 Skin corrosion/irritation, Category 2 H315 Serious eye damage/eye irritation, Category 2 H319 H317 Skin sensitisation, Category 1 Hazardous to the aquatic environment — Chronic Hazard, Category 3

Full text of H statements: see section 16

Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated. Extremely flammable aerosol. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS02 GHS07

Signal word (CLP)

Hazardous ingredients : bisphenol-A-(epichlorhydrin), epoxy resin

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Hazard statements (CLP) : H222 - Extremely flammable aerosol.

H229 - Pressurised container: May burst if heated.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use. P273 - Avoid release to the environment.

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

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.

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

°F.

Unknown acute toxicity (CLP) - SDS : 7.98% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation

(Vapours))

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
dimethyl ether substance with a Community workplace exposure limit (Note U)	(CAS-No.) 115-10-6 (EC-No.) 204-065-8 (EC Index-No.) 603-019-00-8 (REACH-no) 01-2119472128-37	25 - 50	Flam. Gas 1, H220 Press. Gas (Liq.), H280
acetone	(CAS-No.) 67-64-1 (EC-No.) 200-662-2 (EC Index-No.) 606-001-00-8 (REACH-no) 01-2119471330-49	10 - 20	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
bisphenol-A-(epichlorhydrin), epoxy resin	(CAS-No.) 25068-38-6 (EC-No.) 500-033-5 (EC Index-No.) 603-074-00-8 (REACH-no) 01-2119456619-26	5 - 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
titanium(IV) oxide substance with a Community workplace exposure limit	(CAS-No.) 13463-67-7 (EC-No.) 236-675-5 (REACH-no) 01-2119489379-17	5 - 10	Not classified
xylene (Note C)	(CAS-No.) 1330-20-7 (EC-No.) 215-535-7 (EC Index-No.) 601-022-00-9 (REACH-no) 01-2119488216-32	3 - 5	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
1-methoxy-2-propanol substance with a Community workplace exposure limit	(CAS-No.) 107-98-2 (EC-No.) 203-539-1 (EC Index-No.) 603-064-00-3	2.5 - 3	Flam. Liq. 3, H226 STOT SE 3, H336
ethylbenzene	(CAS-No.) 100-41-4 (EC-No.) 202-849-4 (EC Index-No.) 601-023-00-4 (REACH-no) 01-2119489370-35	1 - 2.5	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:vapour), H332 STOT RE 2, H373 Asp. Tox. 1, H304

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Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
bisphenol-A-(epichlorhydrin), epoxy resin	(CAS-No.) 25068-38-6 (EC-No.) 500-033-5 (EC Index-No.) 603-074-00-8 (REACH-no) 01-2119456619-26	(5 = <c 100)="" 2,="" <="" eye="" h319<br="" irrit.="">(5 =<c 100)="" 2,="" <="" h315<="" irrit.="" skin="" td=""></c></c>	

Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note U (Table 3): When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

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

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

occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eve irritation.

4.3. Indication of any immediate medical attention and special treatment needed

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.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

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

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with

skin and eyes. Avoid breathing spray, fume, vapours.

6.1.2. For emergency responders

: Do not attempt to take action without suitable protective equipment. For further information Protective equipment

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

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

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. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing vapours, fume, spray.

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Hygiene measures

: 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.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

0.1.	Contro	n parai	Hetel 3

dimethyl ether (115-10-6)			
EU	Local name	Dimethylether	
EU	IOELV TWA (mg/m³)	1920 mg/m³	
EU	IOELV TWA (ppm)	1000 ppm	
EU	Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
Germany	TRGS 910 Acceptable concentration notes		
Ireland	Local name	Dimethyl ether	
Ireland	OEL (8 hours ref) (mg/m³)	1920 mg/m³	
Ireland	OEL (8 hours ref) (ppm)	1000 ppm	
Ireland	Notes (IE)	IOELV (Indicative Occupational Exposure Limit Values)	
Ireland	Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018	
United Kingdom	Local name	Dimethyl ether	
United Kingdom	WEL TWA (mg/m³)	766 mg/m³	
United Kingdom	WEL TWA (ppm)	400 ppm	
United Kingdom	WEL STEL (mg/m³)	958 mg/m³	
United Kingdom	WEL STEL (ppm)	500 ppm	
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE	

acetone (67-64-1)		
EU	Local name	Acetone
EU	IOELV TWA (mg/m³)	1210 mg/m³
EU	IOELV TWA (ppm)	500 ppm
EU	Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Germany	TRGS 910 Acceptable concentration notes	
Ireland	Local name	Acetone
Ireland	OEL (8 hours ref) (mg/m³)	1210 mg/m³
Ireland	OEL (8 hours ref) (ppm)	500 ppm
Ireland	Notes (IE)	IOELV (Indicative Occupational Exposure Limit Values)
Ireland	Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018
United Kingdom	Local name	Acetone
United Kingdom	WEL TWA (mg/m³)	1210 mg/m³
United Kingdom	WEL TWA (ppm)	500 ppm
United Kingdom	WEL STEL (mg/m³)	3620 mg/m³
United Kingdom	WEL STEL (ppm)	1500 ppm
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE

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titanium(IV) oxide (13463-67-7)			
EU	Local name	Titanium dioxide	
EU	Notes	(Ongoing)	
EU	Regulatory reference	SCOEL Recommendations	
Germany	TRGS 910 Acceptable concentration notes		
Ireland	Local name	Titanium dioxide	
Ireland	OEL (8 hours ref) (mg/m³)	10 mg/m³ total inhalable dust 4 mg/m³ respirable dust	
Ireland	Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018	
United Kingdom	Local name	Titanium dioxide	
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ 4 mg/m³	
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE	

xylene (1330-20-7)		
EU	Local name	Xylene, mixed isomers, pure
EU	IOELV TWA (mg/m³)	221 mg/m³
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m³)	442 mg/m³
EU	IOELV STEL (ppm)	100 ppm
EU	Notes	Skin
EU	Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Germany	TRGS 910 Acceptable concentration notes	
Ireland	Local name	Xylene, mixed isomers
Ireland	OEL (8 hours ref) (mg/m³)	221 mg/m³
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	OEL (15 min ref) (mg/m3)	442 mg/m³
Ireland	OEL (15 min ref) (ppm)	100 ppm
Ireland	Notes (IE)	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values)
Ireland	Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018
United Kingdom	Local name	Xylene
United Kingdom	WEL TWA (mg/m³)	220 mg/m³
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m³)	441 mg/m³
United Kingdom	WEL STEL (ppm)	100 ppm
United Kingdom	Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE

1-methoxy-2-propanol (107-98-2)			
EU Local name 1-Methoxypropanol-2			
EU	IOELV TWA (mg/m³)	375 mg/m³	
EU	IOELV TWA (ppm)	100 ppm	

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1-methoxy-2-propanol (107-98-2)			
EU	IOELV STEL (mg/m³)	568 mg/m³	
EU	IOELV STEL (ppm)	150 ppm	
EU	Notes	Skin	
EU	Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
Germany	TRGS 910 Acceptable concentration notes		
Ireland	Local name	Propylene glycol monomethyl ether	
Ireland	OEL (8 hours ref) (mg/m³)	375 mg/m³	
Ireland	OEL (8 hours ref) (ppm)	100 ppm	
Ireland	OEL (15 min ref) (mg/m3)	568 mg/m³	
Ireland	OEL (15 min ref) (ppm)	150 ppm	
Ireland	Notes (IE)	IOELV (Indicative Occupational Exposure Limit Values)	
Ireland	Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018	
United Kingdom	Local name	1-Methoxypropan-2-ol	
United Kingdom	WEL TWA (mg/m³)	375 mg/m³	
United Kingdom	WEL TWA (ppm)	100 ppm	
United Kingdom	WEL STEL (mg/m³)	560 mg/m³	
United Kingdom	WEL STEL (ppm)	150 ppm	
United Kingdom	Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)	
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE	

ethylbenzene (100-41-4)		
EU	Local name	Ethylbenzene
EU	IOELV TWA (mg/m³)	442 mg/m³
EU	IOELV TWA (ppm)	100 ppm
EU	IOELV STEL (mg/m³)	884 mg/m³
EU	IOELV STEL (ppm)	200 ppm
EU	Notes	Skin
EU	Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Germany	TRGS 910 Acceptable concentration notes	
Ireland	Local name	Ethylbenzene
Ireland	OEL (8 hours ref) (mg/m³)	442 mg/m³
Ireland	OEL (8 hours ref) (ppm)	100 ppm
Ireland	OEL (15 min ref) (mg/m3)	884 mg/m³
Ireland	OEL (15 min ref) (ppm)	200 ppm
Ireland	Notes (IE)	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values)
Ireland	Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018
United Kingdom	Local name	Ethylbenzene
United Kingdom	WEL TWA (mg/m³)	441 mg/m³
United Kingdom	WEL TWA (ppm)	100 ppm
United Kingdom	WEL STEL (mg/m³)	552 mg/m³

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ethylbenzene (100-41-4)			
United Kingdom	WEL STEL (ppm)	125 ppm	
United Kingdom	Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)	
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE	

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:			
Protective gloves	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			
Device	Filter type	Condition	Standard
Air-Purifying Respirator (APR), reusable	Filter A2/B2		

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Aerosol.
Colour	: Beige.
Odour	: characteristic.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: < 18 °C

Auto-ignition temperature : No data available Decomposition temperature : No data available

Flammability (solid, gas) : Extremely flammable aerosol.

Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available Density : 1.0025 g/cm³ Solubility : No data available Log Pow : No data available Viscosity, kinematic : No data available : No data available Viscosity, dynamic

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Explosive properties : Pressurised container: May burst if heated.

Oxidising properties : No data available Explosive limits : No data available

9.2. Other information

VOC content : 654 g/l

MIR : EPA Coating Category: NFP 1.4

CARB Aerosol Rule Coating Category: TCC 1.2

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

10.5. Incompatible materials

No additional information available

10.6. 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

dimethyl ether (115-10-6)	
LC50 inhalation rat (mg/l)	309 mg/l (Other, 4 h, Rat, Male, Experimental value, Inhalation (gases))
LC50 inhalation rat (ppm)	164000 ppm (Other, 4 h, Rat, Male, Experimental value, Inhalation (gases))

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))

bisphenol-A-(epichlorhydrin), epoxy resin (25068-38-6)	
	> 2000 mg/kg (OECD 420: Acute Oral toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Experimental value, Dermal)

titanium(IV) oxide (13463-67-7)	
LD50 oral rat	> 5000 mg/kg bodyweight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Female, Experimental value, Oral, 14 day(s))
LC50 inhalation rat (mg/l)	> 6.82 mg/l (Other, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s))

xylene (1330-20-7)	
LD50 oral rat	3523 mg/kg bodyweight (Equivalent or similar to EU Method B.1: Acute Toxicity (Oral), Rat, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rat	12126 mg/kg (Non-GLP, read-across from supporting substance, single dermal dose under occlusion followed by observation for 14 days)
LC50 inhalation rat (ppm)	6700 ppm/4h (EU Method B.2 (Acute Toxicity (Inhalation)), 4h, rat, male)

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1-methoxy-2-propanol (107-98-2)	
LD50 oral rat	4016 mg/kg bodyweight (EU Method B.1 tris: Acute oral toxic – Acute toxic class method Rat, Male/female, Experimental value, Oral)
LD50 dermal rat	> 2000 mg/kg bodyweight (Other, 24 h, Rat, Male/female, Experimental value, Dermal)
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))
Unknown acute toxicity (CLP) - SDS	: 7.98% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))
Skin corrosion/irritation	: Causes skin irritation.
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
titanium(IV) oxide (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans

titanium(IV) oxide (13463-67-7)		
IARC group	2B - Possibly carcinogenic to humans	
xylene (1330-20-7)		
IARC group	3 - Not classifiable	
ethylbenzene (100-41-4)		
IARC group	2B - Possibly carcinogenic to humans	

STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

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: Not classified

2K RAPTOR ANTI CORROSIVE EPOXY PRIMER AEROSOL	
Vaporizer	Aerosol

SECTION 12: Ecological inform	nation
12.1. Toxicity	
Ecology - general	: Harmful to aquatic life with long lasting effects.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Harmful to aquatic life with long lasting effects.
dimethyl ether (115-10-6)	
LC50 fish 1	> 4100 mg/l (Other, 96 h, Poecilia reticulata, Semi-static system, Fresh water, Experimental value)
EC50 Daphnia 1	> 4400 mg/l (Other, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 96h algae (1)	154.9 mg/l (ECOSAR v1.00, Algae, QSAR)

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)
	> 7000 mg/l (Selenastrum capricornutum, Static system, Fresh water, Experimental value, Nominal concentration)

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bisphenol-A-(epichlorhydrin), epoxy resin (25068-38-6)	
LC50 fish 1	2.3 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, Nominal concentration)
EC50 Daphnia 1	1.1 - 2.8 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 (algae)	> 11 mg/l (EPA 660/3 - 75/009, 72 h, Scenedesmus sp., Static system, Fresh water, Experimental value)
titanium(IV) oxide (13463-67-7)	
LC50 fish 1	100 mg/l (Equivalent or similar to OECD 203, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nominal concentration)
ErC50 (algae)	61 mg/l (EPA 600/9-78-018, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)
xylene (1330-20-7)	
LC50 fish 1	2.6 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static renewal, Fresh water, Read-across, Lethal)
EC50 72h algae (1)	2.2 mg/l
ErC50 (algae)	4.36 mg/l (OECD 201: Alga, Growth Inhibition Test, 73 h, Pseudokirchneriella subcapitata Static system, Fresh water, Experimental value, GLP)
1-methoxy-2-propanol (107-98-	-2)
LC50 fish 1	>= 1000 mg/l (Equivalent or similar to OECD 203, 96 h, Oncorhynchus mykiss, Semi-station)
ErC50 (algae)	> 1000 mg/l (Other, 168 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
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)

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)
EC50 Daphnia 1	2.1 (1.8 - 2.4) mg/l (US EPA, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 72h algae (1)	5.4 mg/l (US EPA, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Cell numbers)
12.2 Parsistance and degradability	

dimethyl ether (115-10-6) Persistence and degradability Non degradable in the soil. Not readily biodegradable in water.

acetone (67-64-1)	
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.43 g O₂/g substance
Chemical oxygen demand (COD)	1.92 g O₂/g substance
ThOD	2.2 g O ₂ /g substance
BOD (% of ThOD)	0.872 (20 day(s), Literature study)

bisphenol-A-(epichlorhydrin), epoxy resin (25068-38-6)	
Persistence and degradability	Not readily biodegradable in water.

titanium(IV) oxide (13463-67-7)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable (inorganic)

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Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

xylene (1330-20-7)		
	Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.

1-methoxy-2-propanol (107-98-2)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
ThOD	1.95 g O ₂ /g substance

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 O₂/g substance	
ThOD	3.17 g O₂/g substance	

12.3. Bioaccumulative potential

dimethyl ether (115-10-6)	
Log Pow	0.1 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

acetone (67-64-1)	
BCF fish 1	0.69 (Pisces)
BCF other aquatic organisms 1	3 (BCFWIN, Calculated value)
Log Pow	-0.24 (Test data)
Bioaccumulative potential	Not bioaccumulative.

bisphenol-A-(epichlorhydrin), epoxy resin (25068-38-6)	
BCF other aquatic organisms 1	31 (Estimated value, Fresh weight)
	2.64 - 3.78 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 $^{\circ}\text{C})$
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

titanium(IV) oxide (13463-67-7)	
Bioaccumulative potential	Not bioaccumulative.

xylene (1330-20-7)	
BCF fish 1	7.2 - 25.9 (56 day(s), Oncorhynchus mykiss, Flow-through system, Fresh water, Readacross)
Log Pow	3.2 (Read-across, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

1-methoxy-2-propanol (107-98-2)	
BCF fish 1	1 (Pimephales promelas)
Log Pow	< 1 (Experimental value, Equivalent or similar to OECD 117, 20 °C)
Bioaccumulative potential	Not bioaccumulative.

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BCF fish 1	ethylbenzene (100-41-4)			
Bioaccumulative potential Low potential for bioaccumulation (BCF < 500). 12.4. Mobility in soil 12.4. Mobility in	BCF fish 1			
12.4. Mobility in soil dimethyl ether (115-10-6) Surface tension	Log Pow	3.6 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C)		
Surface tension 0.02 Nm (-40 °C) Ecology - soil 0.022 Nm (-40 °C) Surface tension 0.0237 N/m Ecology - soil 0.0	Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).		
Surface tension 0.02 N/m (-40 °C) Ecology - soil Not applicable (gas). acetone (67-64-1) Surface tension 0.0237 N/m Ecology - soil No (test)data on mobility of the substance available. bisphanol-A-(epichlorhydrin), epoxy resin (25068-38-6) Surface tension 58.7 - 58.9 m/m/ (20 °C, EU Method A.5. Surface tension) Log Koc 2.65 flog Koc, SRC PCKCOVIN v.2.0, QSAR) Ecology - soil Low potential for adsorption in soil. titanium(V) oxide (13463-67-7) Ecology - soil Low potential for mobility in soil. xylene (1330-20-7) Surface tension 28.01 - 29.76 m/m (25 °C) Log Koc 2.73 (log Koc, Equivalent or similar to OECD 121, Read-across) Ecology - soil Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation. 1-methoxy-2-propanol (107-98-2) Surface tension 0.0707 N/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions) Ecology - soil Low potential for adsorption 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 Koc 2.71 (log Koc, PCKCOVINI v.1.66, QSAR) Ecology - soil Low potential for adsorption 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 Koc 2.71 (log Koc, PCKCOVINI v.1.66, QSAR) Ecology - soil Low potential for adsorption 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 Koc 2.71 (log Koc, PCKCOVINI v.1.66, QSAR) Low potential for adsorption in soil. 10.52. Results of PBT and vPvB assessment Component dimethyl ether (115-10-6) This substance/mixture does not meet the VPvB criteria of REACH regulation, annex XIII This substance/mixture does not meet the VPvB criteria of REACH regulation, annex XIII This substance/mixture does not meet the VPvB criteria of REACH regulation, annex XIII This substance/mixture does not meet the VPvB criteria of REACH regulation, annex XIII This substance/mixture does not meet the VPvB criteria of REACH regulation, an	12.4. Mobility in soil			
Ecology - soil Not applicable (gas). acetone (67-64-1) Surface tension 0.0237 N/m Ecology - soil No (test)data on mobility of the substance available. bisphenol-A-(epichlorhydrin), epoxy resin (25068-38-6) Surface tension 8.8.7 - \$8.9 m/lm (20 °C, EU Method A.5. Surface tension) Log Noc 2.65 (log Noc. SRC PCKOCWIN v2.0, QSAR) Ecology - soil Low potential for adsorption in soil. titanium(IV) oxide (13463-67-7) Ecology - soil Low potential for mobility in soil. xylene (1330-20-7) Surface tension 28.01 - 29.76 m/lm (25 °C) Log Noc 2.73 (log Noc. Equivalent or similar to OECD 121, Read-across) Log Noc 2.73 (log Noc. Equivalent or similar to OECD 121, Read-across) Log Noc 2.73 (log Noc. Equivalent or similar to OECD 121, Read-across) Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation. 1-methoxy-2-propanol (107-98-2) Surface tension 0.0707 N/m (20 °C, 1 g/l, QECD 115: Surface Tension of Aqueous Solutions) Ecology - soil Low potential for adsorption 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 Noc 2.71 (log Noc. PCKOCWIN v1.66, QSAR) Ecology - soil Low potential for adsorption in soil. Toxic to soil organisms. 1.25. Results of PBT and vPvB assessment Component dimethyl ether (115-10-6) This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mi	dimethyl ether (115-10-6)			
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Surface tension 0.0237 N/m Ecology - soil No (test)data on mobility of the substance available. bisphenot-A-(epichlorhydrin), epoxy resin (25068-38-6) Surface tension 58.7 - 58.9 mN/m (20 °C, EU Method A.5: Surface tension) Log Koc 2.65 (log Koc, SRC PCKCCWIN v.2.0, GSAR) Ecology - soil Low potential for adsorption in soil. titanium(IV) oxide (13463-67-7) Ecology - soil Low potential for mobility in soil. xylene (1330-20-7) Surface tension 28.01 - 29.76 mN/m (25 °C) Log Koc 2.73 (log Koc, Equivalent or similar to OECD 121, Read-across) Ecology - soil Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation. 1-methoxy-2-propanol (107-98-2) Surface tension 0.0707 N/m (20 °C, 1 gl., OECD 115: Surface Tension of Aqueous Solutions) Ecology - soil Low potential for adsorption in soil. 4-methoxy-2-propanol (107-98-2) Surface tension 0.071 N/m (23 °C, 0.0582 gl. EU Method A.5: Surface tension) Log Koc 2.71 (log Koc, PCKCCWIN v.1 66, QSAR) Ecology - soil Low potential for adsorption in soil. 6-method - 4-method - 4-	Ecology - soil	Not applicable (gas).		
Ecology - soil No (test)data on mobility of the substance available.	acetone (67-64-1)			
bisphenol-A-(epichlorhydrin), epoxy resin (25088-38-6) Surface tension	Surface tension	0.0237 N/m		
Surface tension 58.7 - 58.9 mN/m (20 °C, EU Method A.5. Surface tension) Log Koc 2.65 (log Koc, SRC PCKOCWIN v2.0, QSAR) Ecology - soil Low potential for adsorption in soil. **Titanium(IV) oxide (13463-67-7) Ecology - soil Low potential for mobility in soil. **Xylene (1330-20-7) Surface tension 28.01 - 29.76 mN/m (25 °C) Log Koc 2.73 (log Koc, Equivalent or similar to OECD 121, Read-across) Ecology - soil Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation. **Imethoxy-2-propanol (107-98-2) Surface tension 0.0707 N/m (20 °C, 1 g/l, OECD 115; Surface Tension of Aqueous Solutions) Ecology - soil Low potential for adsorption 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 Koc 2.71 (log Koc, PCKOCWIN v1.66, QSAR) Ecology - soil Low potential for adsorption in soil. Toxic to soil organisms. **12.5. Results of PBT and vPvB assessment** **Component** dimethyl ether (115-10-6) This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the PPB criteria of REACH regulation, annex XIII This substance/mixture does not meet the PPB criteria of REACH regulation, annex XIII This substance/mixture does not meet the PPB criteria of REACH regulation, annex XIII This substance/mixture does not meet the PPB criteria of REACH regulation, annex XIII This substance/mixture does not meet the PPB criteria of REACH regulation, annex XIII This substance/mixture does not meet the PPB criteria of REACH regulation, annex XIII This substance/mixture does not meet the PPB criteria of REACH regulation, annex XIII This substance/mixture does not meet the PPB criteria of REACH regulation, annex XIII This substance/mixture does not meet the PPB criteria of REACH regulation, annex XIII This substance/mixture does not meet the PPB criteria of REACH regulation, annex XIII This substance/mixture does not meet the PPB criteria of REACH regulat	Ecology - soil	No (test)data on mobility of the substance available.		
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	1-methoxy-2-propanol (107-98-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		

EN (English) 28/02/2019 (Version: 3.0) 12/15

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

ethylbenzene (100-41-4)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

	14.1. UN number					
UN 1950	UN 1950	UN 1950	UN 1950			
14.2. UN proper shipping name						
AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS			
ption						
UN 1950 AEROSOLS, 2.1	UN 1950 Aerosols, flammable, 2.1	UN 1950 AEROSOLS, 2.1	UN 1950 AEROSOLS, 2.1			
14.3. Transport hazard class(es)						
2.1	2.1	2.1	2.1			
***	*		*			
14.4. Packing group						
Not applicable	Not applicable	Not applicable	Not applicable			
14.5. Environmental hazards						
Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No			
	AEROSOLS ption UN 1950 AEROSOLS, 2.1 lass(es) 2.1 Not applicable ards Dangerous for the environment: No	AEROSOLS Aerosols, flammable ption UN 1950 AEROSOLS, 2.1 UN 1950 Aerosols, flammable, 2.1 lass(es) 2.1 2.1 Not applicable Not applicable ards Dangerous for the environment: No Marine pollutant: No	AEROSOLS Aerosols, flammable AEROSOLS ption UN 1950 AEROSOLS, 2.1 UN 1950 Aerosols, flammable, 2.1 Dangerous for the environment: No Marine pollutant: No AEROSOLS AEROSOLS, flammable AEROSOLS, 2.1 UN 1950 AEROSOLS, 2.1 UN 1950 AEROSOLS, 2.1 UN 1950 AEROSOLS, 2.1 Dangerous for the environment: No Dangerous for the environment: No Marine pollutant: No			

No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : 5F

Special provisions (ADR) : 190, 327, 344, 625

Limited quantities (ADR) : 11
Excepted quantities (ADR) : E0
Packing instructions (ADR) : P207

Special packing provisions (ADR) : PP87, RR6, L2

Mixed packing provisions (ADR): MP9Transport category (ADR): 2Special provisions for carriage - Packages (ADR): V14Special provisions for carriage - Loading,: CV9, CV12

unloading and handling (ADR)

Special provisions for carriage - Operation (ADR) : S2 Tunnel restriction code (ADR) : D

Transport by sea

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
EmS-No. (Spillage) : S-U

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Stowage category (IMDG) : None
Stowage and handling (IMDG) : SW1, SW22
Segregation (IMDG) : SG69

Air transport

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Y203
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 203
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 203
CAO max net quantity (IATA) : 150kg

Special provisions (IATA) : A145, A167, A802

ERG code (IATA) : 10L

Inland waterway transport

Classification code (ADN) : 5F

Special provisions (ADN) : 190, 327, 344, 625

Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E0

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01, VE04

Number of blue cones/lights (ADN) : 1

Rail transport

Classification code (RID) : 5F

Special provisions (RID) : 190, 327, 344, 625

Limited quantities (RID) : 1L Excepted quantities (RID) : E0

Packing instructions (RID) : P207, LP200 Special packing provisions (RID) : PP87, RR6, L2

Mixed packing provisions (RID) : MP9

Transport category (RID) : 2

Special provisions for carriage – Packages (RID) : W14

Special provisions for carriage - Loading, : CW9, CW12

unloading and handling (RID)

Colis express (express parcels) (RID) : CE2
Hazard identification number (RID) : 23

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

VOC content : 654 g/l

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Full text of H- and EUH-statements:	Full text of H- and EUH-statements:		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4		
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4		
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4		
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2		
Asp. Tox. 1	Aspiration hazard, Category 1		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Flam. Gas 1	Flammable gases, Category 1		
Flam. Liq. 2	Flammable liquids, Category 2		
Flam. Liq. 3	Flammable liquids, Category 3		
Press. Gas (Liq.)	Gases under pressure : Liquefied gas		
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, Narcosis		
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation		
H220	Extremely flammable gas.		
H222	Extremely flammable aerosol.		
H225	Highly flammable liquid and vapour.		
H226	Flammable liquid and vapour.		
H229	Pressurised container: May burst if heated.		
H280	Contains gas under pressure; may explode if heated.		
H304	May be fatal if swallowed and enters airways.		
H312	Harmful in contact with skin.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H319	Causes serious eye irritation.		
H332	Harmful 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.		
H412	Harmful to aquatic life with long lasting effects.		

SDS EU (REACH Annex II)

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