

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

1.1 Product identifier

- Rt qf weveqfg TO9757
- Vtcfg pco g< **DIAMANTE POLYURETHANE CLEAR TOP COAT 5GL**
- 3040Tgqxcpvlf gpvllgf wugu qhvj g uwdiucpeg qt o kwtg cpf wugucfxlugf ci clpw
Painting product for coating and / or decoration of manufactured articles.
- Crrnecvqpp qhvj g uwdiucpeg Ij g o kwtg For professional use

1.3 Details of the supplier of the safety data sheet

·Manufacturer/Supplier:

IVM Chemicals srl Viale della Stazione 3 -27020 Parona (PV) Italy tel +39 038425441

1.3.2 Importer

Name: AKZOLUX AUSTRALIA T/as: SUPERIOR TIMBER COATINGS

Address: 13/257 COLCHESTER ROAD KILSYTH, VICTORIA, AUSTRALIA Email:tom@stcoatings.com.au

·Information department:

Environmental Health and safety office hseoffice@ivmchemicals.com

·Emergency telephone number:

From 8.30am to 3.30pm (AEST) +61 03 9761 6899 Out of the above mentioned hours, Saturdays and Sundays and during periods of closure for holidays please call: +61410 635 016

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- EncuHecvqpp ceeqtf lpi vj Tgi wrcvqpp *GE+Pq 3494H22:



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

Repr. 2 H361d Suspected of damaging the unborn child.
STOT RE 2 H373 May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Oral and Inhalation.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.
STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

2.2 Label elements

- Ncdgnlpi ceeqtf lpi vj Tgi wrcvqpp *GE+Pq 3494H22:

The product is classified and labelled according to the CLP regulation.

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· *J c|ctf r lēvqi tco u*



GHS02 GHS05 GHS07 GHS08

· *Ui pcny qtf* Danger

· *J c|ctf/f gyto k lpi eqo r qpgpw qh r dgn lpi <*
butan-1-ol

xylene

toluene

2-methylpropan-1-ol

· *J c|ctf ucvgo gpw*

H225 *Highly flammable liquid and vapour.*

H315 *Causes skin irritation.*

H318 *Causes serious eye damage.*

H361d *Suspected of damaging the unborn child.*

H335-H336 *May cause respiratory irritation. May cause drowsiness or dizziness.*

H373 *May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Oral and Inhalation.*

· *Rt gecw k p p c t { ucvgo gpw*

P101 *If medical advice is needed, have product container or label at hand.*

P102 *Keep out of reach of children.*

P103 *Read label before use.*

P210 *Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*

P240 *Ground and bond container and receiving equipment.*

P241 *Use explosion-proof [electrical/ventilating/lighting] equipment.*

P260 *Do not breathe vapours.*

P280 *Wear protective gloves/protective clothing/eye protection/face protection.*

P303+P361+P353 *IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].*

P305+P351+P338 *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*

P310 *Immediately call a POISON CENTER/doctor.*

P321 *Specific treatment (see on this label).*

P362+P364 *Take off contaminated clothing and wash it before reuse.*

P405 *Store locked up.*

P501 *Dispose of contents/container in accordance with local.*

· **2.3 Other hazards**

· *T g w n u q h R D V c p f x R x D c u g u o g p v*

· *R D V <*Not applicable.

· *x R x D <*Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

· *F g u e t k r v q p <*Mixture: consisting of the following components.

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· Fcpi gtuwueqo rpgpww<		
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-XXXX	xylene ⚠ Flam. Liq. 3, H226 ☠ STOT RE 2, H373; Asp. Tox. 1, H304 ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 Aquatic Chronic 3, H412	15-19.99%
CAS: 110-19-0 EINECS: 203-745-1 Reg.nr.: 01-2119488971-22-XXXX	isobutyl acetate ⚠ Flam. Liq. 2, H225 ⚠ STOT SE 3, H336	10-12.49%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43-XXXX	butanone ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	10-12.49%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29-XXXX	2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226 ⚠ STOT SE 3, H336	5-9.99%
CAS: 108-88-3 EINECS: 203-625-9 Reg.nr.: 01-2119471310-51-XXXX	toluene ⚠ Flam. Liq. 2, H225 ☠ Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H336 Aquatic Chronic 3, H412	≥3-<4.99%
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119488216-32-XXXX	ethylbenzene ⚠ Flam. Liq. 2, H225 ☠ STOT RE 2, H373; Asp. Tox. 1, H304 ⚠ Acute Tox. 4, H332	2.5-4.99%
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46-XXXX	ethyl acetate ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	2.5-4.99%
CAS: 71-36-3 EINECS: 200-751-6 Reg.nr.: 01-2119484630-38-XXXX	butan-1-ol ⚠ Flam. Liq. 3, H226 ⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	1-2.49%
CAS: 78-83-1 EINECS: 201-148-0 Reg.nr.: 01-2119484609-23-XXXX	2-methylpropan-1-ol ⚠ Flam. Liq. 3, H226 ⚠ Eye Dam. 1, H318 ⚠ Skin Irrit. 2, H315; STOT SE 3, H335-H336	1%

· Cf f l w p c n l p l q t o c w l q p < For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· I g p g t c n l p l q t o c w l q p <

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

personal protective equipment for first aid responders is recommended. (please see section 8)

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- *Chgt kpi crwkp*
In case of unconsciousness place patient stably in side position for transportation.
- *Chgt unkp eqpw ev*
Remove contaminated clothing.
Immediately wash with water and soap, or a recognized skin cleanser, and rinse thoroughly.
Take off immediately all contaminated clothing, include underwear and shoes (if necessary).
Rinse thoroughly with plenty of water for at least 20 minutes and take medical advise. I medical advise is needed have products container or label at hand.
- *Chgt glg eqpw ev*
Rinse opened eye for several minutes under running water. Then consult a doctor.
- *Chgt uy cmqy kpi* <Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
For symptoms and effects caused by substances, see chap. 11th
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
 - *Uwkw dng gz wpi wkj kpi ci gpw* <Alcohol resistant foam, CO, powder, water spray/mist.
 - *Hgt uchgv tgcuppu wpuwkw dng gz wpi wkj kpi ci gpw*
Do not use a jet water stream as it may scatter and spread fire.
- **5.2 Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
- **5.3 Advice for firefighters**
Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health and also, in the case of closed containers exposed to flames to prevent explosions.
 - *Rt qvewkg gs wv o gpw*
Hardhat with visor, fireproof clothing, suitable gloves and if necessary mouth respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
 Open and handle receptacle with care.
 Prevent formation of aerosols.
 Protect against electrostatic charges.
 Keep respiratory protective device available.
 Use explosion-proof apparatus / fittings and spark-proof tools.

· *ĶpĶto cĶqĶ cdqwwĶĶg / cpf gznĶqĶ rĶqĶĶqĶ* <

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities

· *UĶtci g<*

· *Tgs wĶgo gĶuĶ dg o gvdĶ ũqĶgtqo ucĶf tgegrwengĶ*

Store in a cool, well-ventilated area, away from heat and sources of ignition

Provide solvent resistant, sealed floor.

Observe the label precautions, the expiration date for the use, if indicated, is from delivery date.

In cases there is no reported deadline, it means that the product must be used within 8 months.

· *ĶpĶto cĶqĶ cdqwwĶtci g Ķp qpg eqo o qp ũqĶci g ĶcĶĶĶ* <Not required.

· *HĶĶj gt ĶpĶto cĶqĶ cdqwwĶtci g eqĶf ĶĶqĶ* <

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end use(s)

Those typical of the product and the instructions in the data sheet if required.

SECTION 8: Exposure controls/personal protection

· *CffĶĶpĶnĶpĶto cĶqĶ cdqwwf gĶi p qhĶej pĶcĶĶcĶĶĶ* <No further data; see item 7.

8.1 Control parameters

· *Ķi tgf ĶpĶy Ķj ņo ĶxcnĶgu Ķj cvtgs wĶg o qĶĶqĶ Ķi cvj g y qĶĶĶeg<*

78-93-3 butanone (10-12.49%)

WEL	Short-term value: 899 mg/m , 300 ppm Long-term value: 600 mg/m , 200 ppm Sk, BMGV
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100-41-4 ethylbenzene (2.5-4.99%)

WEL	Short-term value: 552 mg/m , 125 ppm Long-term value: 441 mg/m , 100 ppm Sk
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141-78-6 ethyl acetate (2.5-4.99%)

WEL	Short-term value: 1468 mg/m , 400 ppm Long-term value: 734 mg/m , 200 ppm
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71-36-3 butan-1-ol (1-2.49%)

WEL	Short-term value: 154 mg/m , 50 ppm Sk
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78-83-1 2-methylpropan-1-ol (1%)		
WEL	Short-term value: 231 mg/m , 75 ppm Long-term value: 154 mg/m , 50 ppm	
123-86-4 n-butyl acetate (<0.1%)		
WEL	Short-term value: 966 mg/m , 200 ppm Long-term value: 724 mg/m , 150 ppm	
· FPGNu		
1330-20-7 xylene		
Inhalative	DNEL acuto/agudo/ostre/aigu/acute/akut	289 mg/mc (Workers)
	DNEL	77 mg/mc (Workers)
Irritation of skin	DNEL	180 mg/kg bw/d (Workers)
110-19-0 isobutyl acetate		
Oral	DNEL	5 mg/kg bw/d (population)
Inhalative	DNEL acuto/agudo/ostre/aigu/acute/akut	600 mg/mc (Workers)
	DNEL	300 mg/mc (population)
	DNEL	300 mg/mc (Workers)
	DNEL	35.7 mg/mc (population)
Irritation of skin	DNEL acuto/agudo/ostre/aigu/acute/akut	5 mg/kg bw/d (population)
	DNEL	10 mg/kg bw/d (Workers)
	DNEL	5 mg/kg bw/d (population)
78-93-3 butanone		
Inhalative	DNEL	600 mg/mc (Workers)
Irritation of skin	DNEL	1,161 mg/kg bw/d (Workers)
108-65-6 2-methoxy-1-methylethyl acetate		
Inhalative	DNEL	275 mg/mc (Workers)
Irritation of skin	DNEL	153.5 mg/kg bw/d (Workers)
108-88-3 toluene		
Inhalative	DNEL acuto/agudo/ostre/aigu/acute/akut	384 mg/mc (Workers)
	DNEL	192 mg/mc (Workers)
Irritation of skin	DNEL	384 mg/kg bw/d (Workers)
100-41-4 ethylbenzene		
Inhalative	DNEL acuto/agudo/ostre/aigu/acute/akut	293 mg/mc (Workers)
	DNEL	77 mg/mc (Workers)
Irritation of skin	DNEL	180 mg/kg bw/d (Workers)
141-78-6 ethyl acetate		
Oral	DNEL	4.5 mg/kg bw/d (population)
Inhalative	DNEL acuto/agudo/ostre/aigu/acute/akut	1,468 mg/mc (Workers)
	DNEL	734 mg/mc (population)
	DNEL	734 mg/mc (Workers)
	DNEL	367 mg/mc (population)
Irritation of skin	DNEL	63 mg/kg bw/d (Workers)
	DNEL	37 mg/kg bw/d (population)

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78-83-1 2-methylpropan-1-ol	
Inhalative	DNEL 310 mg/mc (Workers)
· <i>RPGEu</i>	
1330-20-7 xylene	
PNEC Acqua dolce/water/woda sjdka/eau/agua/	0.327 mg/L ()
PNEC Suolo/earth/suelo/ /	2.31 mg/kg ()
110-19-0 isobutyl acetate	
PNEC Acqua dolce/water/woda sjdka/eau/agua/	0.17 mg/L ()
PNEC Suolo/earth/suelo/ /	0.0755 mg/kg ()
78-93-3 butanone	
PNEC Acqua dolce/water/woda sjdka/eau/agua/	55.8 mg/L ()
PNEC Suolo/earth/suelo/ /	22.5 mg/kg ()
108-65-6 2-methoxy-1-methylethyl acetate	
PNEC Acqua dolce/water/woda sjdka/eau/agua/	0.635 mg/L ()
PNEC Suolo/earth/suelo/ /	0.29 mg/kg ()
108-88-3 toluene	
PNEC Acqua dolce/water/woda sjdka/eau/agua/	0.68 mg/L ()
PNEC Suolo/earth/suelo/ /	2.89 mg/kg ()
100-41-4 ethylbenzene	
PNEC Acqua dolce/water/woda sjdka/eau/agua/	0.1 mg/L ()
PNEC Suolo/earth/suelo/ /	2.68 mg/kg ()
141-78-6 ethyl acetate	
PNEC Acqua dolce/water/woda sjdka/eau/agua/	0.24 mg/L ()
PNEC Suolo/earth/suelo/ /	0.148 mg/kg ()
78-83-1 2-methylpropan-1-ol	
PNEC Acqua dolce/water/woda sjdka/eau/agua/	0.4 mg/L ()
PNEC Suolo/earth/suelo/ /	0.0699 mg/kg ()
· <i>pi tgfkgpuy kj dlqri kcnko lxcnwgk</i>	
78-93-3 butanone (10-12.49%)	
BMGV	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one

· *Cffkqpcnkphqto cvkqp* < The lists valid during the making were used as basis.

· 8.2 Exposure controls

· *Rgtuqpcnrtqgevkxg gs wkr o gpvk*

· *I gpgtcnrtqgevkxg cpf j {i kgpk o gcwstguk*

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

Pregnant women should strictly avoid inhalation or skin contact.

· *Tgur kcvqt { rtqgevkqp* <

Short term filter device:

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Filter AX



Suitable respiratory protective device recommended. (EN140)

· Rt qvewtqp qhj cpf uκ



Protective gloves

The glove material has to be impermeable and resistant to the product and in accordance with EN 374 and Directive 89/686/EEC.

Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· O cvgtlc nqhi npxgu

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Rgpvvcvapp wo g qhi npxg o cvgtlc n

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Gfg rt qvewtqp <



Glasses (EN166) or other protective equipment

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· I gpgtcnkp hqto cvkqp

· Crrgctcpeg <

· Hqto <

Fluid

· Eqvwt <

According to product specification

· Qf qwt <

Characteristic

· Qf qwt vj tgij qtf <

Not determined.

· rJ /xcmwg <

Not determined.

· Ej cpi g kp eqpfkqp

· Ognkpi rqlpvlltgg/lpi rqlpv <

Undetermined.

· Kpklcndqkklpi rqlpvcpf dqkklpi tcepi g <

77 °C

· Hrcuj rqlpv <

-4 °C

· Hrc o cdlklw *uqklf. i cu <

Not applicable.

· Kpkkqp vgo rgtcvwtg <

315 °C

· Fgeqo rqukqp vgo rgtcvwtg <

Not determined.

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· <i>Cwq/ki plktpp vgo rgt cwt g<</i>	Product is not selfigniting.
· <i>Gzr rqukxg rt gr gt vlgk<</i>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <i>Gzr rqukpp nko lvk<</i>	
· <i>Ngy gt<</i>	1 Vol %
· <i>Wrr gt<</i>	12 Vol %
· <i>Xcr qwt rt gumt g cv 42 °C:</i>	105 hPa
· <i>Density at 20 °C:</i>	0.968 g/cm
· <i>Relative density</i>	Not determined.
· <i>Vapour density</i>	Not determined.
· <i>Evaporation rate</i>	Not determined.
· <i>Solubility in / Miscibility with</i>	
· <i>water:</i>	Not miscible or difficult to mix.
· <i>Partition coefficient: n-octanol/water:</i>	Not determined.
· <i>Viscosity:</i>	
· <i>Dynamic:</i>	Not determined.
· <i>Kinematic at 20 °C:</i>	25 s (ISO 6 mm)
· <i>Oxidising properties :</i>	N.A.
· <i>Solvent content:</i>	
· <i>VOC and Total VOC</i>	
<i>(organic solvents + reactive solvents if any)</i>	65.01 %
· <i>Water:</i>	0.3 %
· <i>VOC (EC)</i>	629.3 g/l
· <i>Solids content:</i>	34.7 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** Typical of the product as indicated in the data sheet
- **10.2 Chemical stability**
 The product is stable in normal conditions of storage and use recommended
 - **Thermal decomposition / conditions to be avoided:**
 No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
 Reacts with strong acids and oxidising agents.
 Vapours may form explosive mixtures with air
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**

In case of possible formation of combustion:
 Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity** Based on available data, the classification criteria are not met.

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<i>· LD/LC50 values relevant for classification:</i>		
1330-20-7 xylene		
Oral	LD50.	3,523 mg/kg (mouse)
Dermal	LD50.	12,126 mg/kg (rabbit)
Inhalative	LC50/4h.	27.571 mg/l (mouse)
110-19-0 isobutyl acetate		
Oral	LD50	13,400 mg/kg (mouse)
Dermal	LD50	17,401 mg/kg (rabbit)
Inhalative	LC50/4 h	31 mg/l (mouse)
78-93-3 butanone		
Oral	LD50	2,001 mg/kg (mouse)
Dermal	LD50	5,001 mg/kg (rabbit)
Inhalative	LC50/4 h	21 mg/l (mouse)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	8,532 mg/kg (mouse)
Dermal	LD50	5,001 mg/kg (rabbit)
Inhalative	LC50/4 h	35.7 mg/l (mouse)
108-88-3 toluene		
Oral	LD50	5,000 mg/kg (mouse)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	25.7 mg/l (mouse)
100-41-4 ethylbenzene		
Oral	LD50	3,500 mg/kg (mouse)
Dermal	LD50	15,486 mg/kg (rabbit)
Inhalative	LC50/4 h	17.2 mg/l (mouse)
141-78-6 ethyl acetate		
Oral	LD50	4,934 mg/kg (rabbit)
Dermal	LD50	20,001 mg/kg (rabbit)
Inhalative	LC50/4 h	1,600 mg/l (mouse)
	LC0	22.6 ppm (mouse)
71-36-3 butan-1-ol		
Oral	LD50	790 mg/kg (mouse)
Dermal	LD50	3,400 mg/kg (rabbit)
Inhalative	LC50/4 h	8,000 mg/l (mouse)
78-83-1 2-methylpropan-1-ol		
Oral	LD50	2,460 mg/kg (mouse)
Dermal	LD50	3,400 mg/kg (rabbit)
Inhalative	LC50/4h.	19.2 mg/l (mouse)

· Primary irritant effect:**· Skin corrosion/irritation**

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye damage.

· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
 - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
 - **Carcinogenicity** Based on available data, the classification criteria are not met.
 - **Reproductive toxicity**
Suspected of damaging the unborn child.
- **STOT-single exposure**
May cause respiratory irritation. May cause drowsiness or dizziness.
- **STOT-repeated exposure**
May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Oral and Inhalation.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· **12.1 Toxicity**

· Aquatic toxicity:	
1330-20-7 xylene	
EC50	2.2 mg/l (algae) (72h)
LC50 48h	1 mg/l (daphnia)
LC50 (96h)	2.6 mg/l (Fish)
110-19-0 isobutyl acetate	
EC50	370 mg/l (algae) (72 h) 25 mg/l (daphnia)
LC50 (96h)	17 mg/l (Fish)
78-93-3 butanone	
EC50	2,029 mg/l (algae) (96 h) 308 mg/l (daphnia) (48 h)
LC50 (96h)	2,993 mg/l (Fish)
108-65-6 2-methoxy-1-methylethyl acetate	
EC50	1,001 mg/l (algae) (72 h) 501 mg/l (daphnia) (48 h)
LC50 (96h)	134 mg/l (Fish)
108-88-3 toluene	
EC50	134 mg/l (algae) (96 h) 3.78 mg/l (daphnia) (48 h)
LC50 (96h)	5.5 mg/l (Fish)
100-41-4 ethylbenzene	
EC50	438 mg/l (algae) (72h) 1.8 mg/l (daphnia) (48 h)
LC50 (96h)	12.1 mg/l (Fish)
141-78-6 ethyl acetate	
EC50	165 mg/l (daphnia) (48 h)
LC50 (96h)	230 mg/l (Fish)
78-83-1 2-methylpropan-1-ol	
EC50	1,799 mg/l (algae) (72 h)

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	1,100 mg/l (daphnia) (48 h)
LC50 (96h)	1,430 mg/l (Fish)

- **12.2 Persistence and degradability**
 Data refers to the substance Toluene CAS No. 108-88-3
 Readily biodegradable (according to OECD criteria and/or EU RAR)
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
 - **Additional ecological information:**
 - **General notes:**
 Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
 Do not allow product to reach ground water, water course or sewage system.
 Must not reach sewage water or drainage ditch undiluted or unneutralised.
 Danger to drinking water if even small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
 - **Recommendation**
 Must not be disposed together with household garbage. Do not allow product to reach sewage system.
 Hand over to hazardous waste disposers.
 The code number of the product as is 080111
 - **Uncleaned packaging:**
 - **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---|----------------------|
| 14.1 UN-Number | |
| · ADR, IMDG, IATA | UN1263 |
| 14.2 UN proper shipping name | |
| · ADR, IMDG, IATA | PAINT |
| 14.3 Transport hazard class(es) | |
| · ADR, IMDG, IATA | |
|  | |
| · Class | 3 Flammable liquids. |
| · Label | 3 |
| 14.4 Packing group | |
| · ADR, IMDG, IATA | II |
| 14.5 Environmental hazards: | |
| · Marine pollutant: | No |

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<ul style="list-style-type: none"> · 14.6 Special precautions for user · <i>Danger code (Kemler):</i> · <i>EMS Number:</i> · <i>Stowage Category</i> 	<p>Warning: <i>Flammable liquids.</i></p> <p>33</p> <p><u>F-E, S-E</u></p> <p>B</p>
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<ul style="list-style-type: none"> · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	<p>Not applicable.</p>
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· **Transport/Additional information:**

<ul style="list-style-type: none"> · ADR · <i>Limited quantities (LQ)</i> · <i>Excepted quantities (EQ)</i> · <i>Transport category</i> · <i>Tunnel restriction code</i> 	<p>5L</p> <p>Code: E2</p> <p>Maximum net quantity per inner packaging: 30 ml</p> <p>Maximum net quantity per outer packaging: 500 ml</p> <p>2</p> <p>D/E</p>
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<ul style="list-style-type: none"> · IMDG · <i>Limited quantities (LQ)</i> · <i>Excepted quantities (EQ)</i> 	<p>5L</p> <p>Code: E2</p> <p>Maximum net quantity per inner packaging: 30 ml</p> <p>Maximum net quantity per outer packaging: 500 ml</p>
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<ul style="list-style-type: none"> · UN "Model Regulation": 	<p>UN 1263 PAINT, 3, II</p>
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SECTION 15: Regulatory information

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

DIRECTIVE 2012/18/EU

P5c Flammable

Limit 1: 5000 t

Limit 2: 50000 t

· *Various regulations* For uses not regulated by D. 2004/42/EC-For professional use only

- *Qualifying quantity (tonnes) for the application of lower-tier requirements* 5,000 t
- *Qualifying quantity (tonnes) for the application of upper-tier requirements* 50,000 t
- *REGULATION (EC) No 1907/2006 ANNEX XVII* Conditions of restriction: 3, 48

· **National regulations:**

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

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- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361d Suspected of damaging the unborn child.
- H373 May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Oral and Inhalation.
- H412 Harmful to aquatic life with long lasting effects.

· **Department issuing SDS:** IVM Chemicals Srl

· **Contact:** Claudia Zanella

· **Abbreviations and acronyms:**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 2: Flammable liquids . Category 2
- Flam. Liq. 3: Flammable liquids . Category 3
- Acute Tox. 4: Acute toxicity . Category 4
- Skin Irrit. 2: Skin corrosion/irritation . Category 2
- Eye Dam. 1: Serious eye damage/eye irritation . Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation . Category 2
- Repr. 2: Reproductive toxicity . Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) . Category 3
- STOT RE 2: Specific target organ toxicity (repeated exposure) . Category 2
- Asp. Tox. 1: Aspiration hazard . Category 1
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard . Category 3

· **Sources**

- REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL and following amendments
- Agency ECHA web site
- INRS Fiche Toxicologique

· *** Data compared to the previous version altered.**