

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

### 1.1 Product identifier

- *Rt qf weveqf g* TX50
- *Vtcf g pco g* <**UNIVERSAL POLYURETHANE HARDENER**
- *3040Tgqxcpvlf g p v h g f wgu qhvj g wduæpeg qt o kvwt g cpf wgu cf xkgf ci clpw*  
Painting product for coating and / or decoration of manufactured articles.
- *Crrnæcvkqp qhvj g wduæpeg 1vj g o kvwt g* 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

- *Encuæhæcvkqp ceeqtf lpi vj Tgi wævæp* \*GE+Pq 3494H22:



GHS02 flame

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



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H336 May cause drowsiness or dizziness.

### 2.2 Label elements

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

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

- *J c/ctf rævqi tco u*



GHS02 GHS07

- *Uki pcny qtf* Danger

- *J c/ctf/fvgto lplpi eqo rqp g p w q h w d g n l p i <*  
Aromatic polyisocyanate  
ethyl acetate  
isobutyl acetate

- *J c/ctf ævgo g p w*  
H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.

## Safety data sheet

as per regulation 1907/2006/EC (REACH) as amended and supplemented

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H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

- **Rt gecwkw pct { uc vgo gp wu**

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.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P312 Call a POISON CENTER/doctor if you feel unwell.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local.

- **Cff hkw pnc npl hqt o c wkw <**

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH204 Contains isocyanates. May produce an allergic reaction.

- **2.3 Other hazards**

- **Tgw wu qh RDV cpf xRxD cuguo gpv**

- RDV < Not applicable.

- xRxD < Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**

- **Fgwet kw wkw < Mixture: consisting of the following components.**

- **Fcpi gtqwuego r qpgpwk <**

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	30-49.99%
CAS: 110-19-0 EINECS: 203-745-1 Reg.nr.: 01-2119488971-22-XXXX	isobutyl acetate ⚠ Flam. Liq. 2, H225 ⚠ STOT SE 3, H336	15-19.99%
CAS: 9017-01-0	Aromatic polyisocyanate ⚠ Eye Irrit. 2, H319; Skin Sens. 1, H317	15-19.99%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29-XXXX	n-butyl acetate ⚠ Flam. Liq. 3, H226 ⚠ STOT SE 3, H336	15-19.99%
CAS: 53317-61-6	Aromatic polyisocyanate ⚠ Eye Irrit. 2, H319; Skin Sens. 1, H317	5-9.99%
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	2.493%

- **Cff hkw pnc npl hqt o c wkw <** For the wording of the listed hazard phrases refer to section 16.

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### SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· *I gpgt cnkphqto cvkqp*

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)

· *Chgt kpij cvkqp*

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· *Chgt unkp eqpwex*

Remove contaminated clothing.

Immediately wash with water and soap, or a recognized skin cleanser, and rinse thoroughly.

· *Chgt gfg eqpwex*

Rinse opened eye for several minutes under running water. Then consult a doctor.

· *Chgt wy cmjy 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 vki wki kpi ci gpw* <Alcohol resistant foam, CO, powder, water spray/mist.

· *Hqt uchgv tgcuppu wpuwkw dng gz vki wki 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**

Formation of toxic gases is possible during heating or in case of fire.

No further relevant information available.

· **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 qvgevkwg gswlr 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**

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).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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**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.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools.

- *Kplqto cklqp cdqwwllg / cpf gznqulqp rtqgeklqp* <

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

**7.2 Conditions for safe storage, including any incompatibilities**

- *Uqtci g* <

- *Tgs wltgo gpvuy dg o gvd{ wqtgtqgo ucpf tgegrweng* <

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.

- *Kplqto cklqp cdqww wqtci g kp qpg eqo o qp wqtci g lceklqf* < Not required.

- *Hwtvj gt kplqto cklqp cdqww wqtci g eqpfklqp* <

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

- *Cffklqpcnklqto cklqp cdqwwfgul p qhygej plecnlceklqf* < No further data; see item 7.

**8.1 Control parameters**

- *Kpitgflgpuy kj nlo kxcwguvj cvtgs wltg o qplqtlpi cvvj gy qtnrveg* <

**141-78-6 ethyl acetate (30-49.99%)**

WEL Short-term value: 1468 mg/m , 400 ppm

Long-term value: 734 mg/m , 200 ppm

**123-86-4 n-butyl acetate (15-19.99%)**

WEL Short-term value: 966 mg/m , 200 ppm

Long-term value: 724 mg/m , 150 ppm

**26471-62-5 m-tolylidene diisocyanate (<0.1%)**

WEL Short-term value: 0.07 mg/m

Long-term value: 0.02 mg/m

Sen; as -NCO

- *FPGNu*

**141-78-6 ethyl acetate**

Oral

DNEL

4.5 mg/kg bw/d (population)

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Inhalative	DNEL acuto/agudo/ostre/aigu/acute/akut	1,468 mg/mc (Workers) 734 mg/mc (population)
	DNEL	734 mg/mc (Workers) 367 mg/mc (population)
Irritation of skin	DNEL	63 mg/kg bw/d (Workers) 37 mg/kg bw/d (population)

**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) 300 mg/mc (population)
	DNEL	300 mg/mc (Workers) 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) 5 mg/kg bw/d (population)

**123-86-4 n-butyl acetate**

Oral	DNEL	2 mg/kg bw/d (population)
Inhalative	DNEL acuto/agudo/ostre/aigu/acute/akut	600 mg/mc (Workers) 300 mg/mc (population)
	DNEL	300 mg/mc (Workers) 35.7 mg/mc (population)
Irritation of skin	DNEL acuto/agudo/ostre/aigu/acute/akut	11 mg/kg bw/d (Workers) 6 mg/kg bw/d (population)
	DNEL	11 mg/kg bw/d (Workers) 6 mg/kg bw/d (population)

**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)

· RPGEu

**141-78-6 ethyl acetate**

PNEC Acqua dolce/water/woda sjo'dka/eau/agua/水	0.24 mg/L ( )
PNEC Suolo/earth/suelo/ /地面	0.148 mg/kg ( )

**110-19-0 isobutyl acetate**

PNEC Acqua dolce/water/woda sjo'dka/eau/agua/水	0.17 mg/L ( )
PNEC Suolo/earth/suelo/ /地面	0.0755 mg/kg ( )

**123-86-4 n-butyl acetate**

PNEC Acqua dolce/water/woda sjo'dka/eau/agua/水	0.18 mg/L ( )
PNEC Suolo/earth/suelo/ /地面	0.0903 mg/kg ( )

**108-65-6 2-methoxy-1-methylethyl acetate**

PNEC Acqua dolce/water/woda sjo'dka/eau/agua/水	0.635 mg/L ( )
PNEC Suolo/earth/suelo/ /地面	0.29 mg/kg ( )

· Cf fklqpcnlqtto cklqp < The lists valid during the making were used as basis.

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**8.2 Exposure controls**

- *Rgt uqpc nrt qvewxg gs wlr o gpv*

- *I gpgt cnrt qvewxg cpf j {i kpkle o gcwt gu*

- Keep away from foodstuffs, beverages and feed.

- Immediately remove all soiled and contaminated clothing

- Wash hands before breaks and at the end of work.

- Avoid contact with the eyes and skin.

- *Tgur kcvqt { rt qvewxg*

- Short term filter device:

- Filter AX



Suitable respiratory protective device recommended. (EN140)

- *Rt qvewxg qhj cpf u*



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 cvgt knqhi nrxgu*

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.

- *Rpggt cvqt w o g qhi nrxg o cvgt kn*

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

- *G {g rt qvewxg*



Glasses (EN166) or other protective equipment

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**

- *I gpgt cnkplqto cvqt*

- *Crrgctcpeg*

- *Hqto*

Fluid

- *Eqqwt*

According to product specification

- *Qf qwt*

Characteristic

- *Qf qwt yj tgij qtf*

Not determined.

- *rJ /xcmwg*

Not determined.

- *Ej cpi g lp eqpfkwqt*

- *O gnkpi rqlkvlltgg/lpi rqlkv*

Undetermined.

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· <i>ĶpĶĶndqĶĶĶpi rĶĶpvcpf dqĶĶĶpi tĶpi g&lt;</i>	77 °C
· <i>Hrcuj rĶĶp&lt;</i>	-4 °C
· <i>Hrc o cdkĶĶĶ *iqĶĶĶ. i cu&lt;</i>	Not applicable.
· <i>ĶpĶĶĶp vgo rgtcwtg&lt;</i>	315 °C
· <i>Fgeqo rĶĶĶĶp vgo rgtcwtg&lt;</i>	Not determined.
· <i>Cwq/li pĶĶĶp vgo rgtcwtg&lt;</i>	Product is not selfigniting.
· <i>GzrĶĶĶg rtqr gtĶĶĶ</i>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <i>GzrĶĶĶp Ķo Ķu&lt;</i>	
· <i>Nqy gt&lt;</i>	1.2 Vol %
· <i>Wrr gt&lt;</i>	11.5 Vol %
· <i>Xcrqwt rtguwtg cv42 °C:</i>	97 hPa
· <i>Density at 20 °C:</i>	0.975 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>	29 s (ISO 3 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>	75.59 %
· <i>VOC (EC)</i>	737.0 g/l
· <i>Solids content:</i>	24.3 %
· <b>9.2 Other information</b>	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** 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

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**SECTION 11: Toxicological information**

· **11.1 Information on toxicological effects**

· *Acute toxicity* Based on available data, the classification criteria are not met.

· *LD/LC50 values relevant for classification:*

**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)

**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)

**9017-01-0 Aromatic polyisocyanate**

Oral	LD50	2,001 mg/kg (mouse) (OECD TG 423) Esami tossicologici su un prodotto compatibile
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**123-86-4 n-butyl acetate**

Oral	LD50	10,760 mg/kg (mouse)
Dermal	LD50	14,000 mg/kg (rabbit)
Inhalative	LC50/4 h	21.1 mg/l (mouse)

**53317-61-6 Aromatic polyisocyanate**

Oral	LD50	5,001 mg/kg (mouse)
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**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)

· **Primary irritant effect:**

- *Skin corrosion/irritation* Based on available data, the classification criteria are not met.
- *Serious eye damage/irritation*  
Causes serious eye irritation.

· **Respiratory or skin sensitisation**

May cause an allergic skin reaction.

· **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* Based on available data, the classification criteria are not met.

· **STOT-single exposure**

May cause drowsiness or dizziness.

· **STOT-repeated exposure** Based on available data, the classification criteria are not met.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

· **More information**

Monomers / polymers isocyanate

Particular characteristics / effects; Over-exposure there is a danger, as a function of concentration, irritation of the eyes, nose, throat and respiratory tract.

Possible the delayed appearance of disorders and development of a form of hypersensitivity (respiratory disorders, cough, asthma). In the case of persons hypersensitive reactions may occur already at concentrations of isocyanate very low, even below the TLV value. In case of prolonged contact with the skin are possible irritant effects and dehydrating.



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## SECTION 12: Ecological information

### · 12.1 Toxicity

· <i>Aquatic toxicity:</i>	
<b>141-78-6 ethyl acetate</b>	
EC50	165 mg/l (daphnia) (48 h)
LC50 (96h)	230 mg/l (Fish)
<b>110-19-0 isobutyl acetate</b>	
EC50	370 mg/l (algae) (72 h)
	25 mg/l (daphnia)
LC50 (96h)	17 mg/l (Fish)
<b>123-86-4 n-butyl acetate</b>	
EC50	397 mg/l (algae) (72 h)
	44 mg/l (daphnia) (48 h)
LC50 (96h)	18 mg/l (Fish)
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
EC50	1,001 mg/l (algae) (72 h)
	501 mg/l (daphnia) (48 h)
LC50 (96h)	134 mg/l (Fish)

· **12.2 Persistence and degradability** No further relevant information available.

· **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 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **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.

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### SECTION 14: Transport information

<ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· ADR, IMDG, IATA</li> </ul>	UN1263	
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· ADR, IMDG, IATA</li> </ul>	PAINT	
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· ADR, IMDG, IATA</li> </ul>	<div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	3 Flammable liquids. 3
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· ADR, IMDG, IATA</li> </ul>	II	
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· Marine pollutant:</li> </ul>	No	
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· Danger code (Kemler):</li> <li>· EMS Number:</li> <li>· Stowage Category</li> </ul>	Warning: Flammable liquids. 33 F-E, S-E B	
<ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul>	Not applicable.	
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>		
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· Limited quantities (LQ)</li> <li>· Excepted quantities (EQ)</li> <li>· Transport category</li> <li>· Tunnel restriction code</li> </ul>	5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2 D/E	
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· Limited quantities (LQ)</li> <li>· Excepted quantities (EQ)</li> </ul>	5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	UN 1263 PAINT, 3, II	

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**Safety data sheet**  
**as per regulation 1907/2006/EC (REACH) as amended and**  
**supplemented**

Printing date 05.02.2020

Version number 584

Revision: 28.01.2020

**Product code TX50**

**Trade name: UNIVERSAL POLYURETHANE HARDENER**

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### SECTION 15: Regulatory information

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

Directive n. : 80/1107/CEE, n. 82/605/CEE, n. 83/477/CEE, n. 86/188/CEE e n. 88/642/CEE, 89/391/CEE, 89/654/CEE, 89/655/CEE, 89/656/CEE, 90/269/CEE, 90/270/CEE, 90/394/CEE, 90/679/CEE, 93/88/CEE, 95/63/CE, 97/42/CE, 98/24/CE, 99/38/CE, 99/92/CE, 2001/45/CE, 2002/44,2003/10/CE, 2003/18/CE , 2004/40/CE,2006/25

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

· **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.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· **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

Eye Irrit. 2: Serious eye damage/eye irritation . Category 2

Skin Sens. 1: Skin sensitisation . Category 1

STOT SE 3: Specific target organ toxicity (single exposure) . Category 3

· **Sources**

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL and following amendments

Agency ECHA web site

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