

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

**1.1 Product identifier**

- *Ät qf weveqf g* TX72
- *Ätcf g pco g* < **YELLOWING RESISTANT PU HARDENER**
- *Ä040Tgqxcpvlf gpvllgf wgu qhv j g wduacpeg qt o kwvt g cpf wgu cf xlugf ci clpw*  
Painting product for coating and / or decoration of manufactured articles.
- *Crrñecvñp qhv j g wduacpeg l v j g o kwvt 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**

· *Encuññecvñp ceeqtf lpi v j Tgi wrcvñp* \*GE+Pq 3494H22:



GHS02 flame

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



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



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 v j Tgi wrcvñp* \*GE+Pq 3494H22:

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

· *J c|ctf r lèvqi tco u*



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· *Ui pcny qtf* Danger

# Safety data sheet

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

Printing date 05.02.2020

Version number 434

Revision: 30.01.2020

**Product code TX72****Trade name: NON-YELLOWING PU HARDENER**

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· J c|ctf/f gvtō kłłpi eqo r qpgpw qhrc dgnłpi <

Polyisocyanate HDI/TDI

n-butyl acetate

m-tolylidene diisocyanate

ethyl acetate

hexamethylene diisocyanate

· J c|ctf ũc vgo gpw

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

· Rt gecwłk pct { ũc vgo gpw

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.

P284

[In case of inadequate ventilation] wear respiratory 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.

P342+P311

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P405

Store locked up.

P501

Dispose of contents/container in accordance with local.

· Cff kłłpncłłłqto cłłq <

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH204 Contains isocyanates. May produce an allergic reaction.

### 2.3 Other hazards

· Tgũũũ qh RDV cpf xRxD cũũũũ gpv

· RDV < Not applicable.

· xRxD < Not applicable.

## SECTION 3: Composition/information on ingredients

### 3.2 Chemical characterisation: Mixtures

· Fgũet kłłq < Mixture: consisting of the following components.

· Fcpi gťqũũeqo r qpgpw <

CAS: 123-86-4	n-butyl acetate	30-49.99%
EINECS: 204-658-1	☠ Flam. Liq. 3, H226	
Reg.nr.: 01-2119485493-29-XXXX	☠ STOT SE 3, H336	
CAS: 141-78-6	ethyl acetate	30-49.99%
EINECS: 205-500-4	☠ Flam. Liq. 2, H225	
Reg.nr.: 01-2119475103-46-XXXX	☠ Eye Irrit. 2, H319; STOT SE 3, H336	

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CAS: 26426-91-5	Polyisocyanate HDI/TDI ⚠ Eye Irrit. 2, H319; Skin Sens. 1, H317	25-29.99%
CAS: 822-06-0 EINECS: 212-485-8 Reg.nr.: 01-2119457571-37-XXXX	hexamethylene diisocyanate ⚠ Acute Tox. 1, H330 ⚠ Resp. Sens. 1, H334 ⚠ Skin Corr. 1C, H314 ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	≥0.1-<0.5%
CAS: 26471-62-5 EINECS: 247-722-4 Reg.nr.: 01-2119454791-34-XXXX	m-tolyldiene diisocyanate ⚠ Acute Tox. 2, H330 ⚠ Resp. Sens. 1, H334; Carc. 2, H351 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 Aquatic Chronic 3, H412	≥0.1-<0.5%

· Cfj hkt p c n l h t o c v k 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 h t o c v k 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)

· Chgt k p j c r c v k p <

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

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

· Chgt u n l p e q p w e v <

Remove contaminated clothing.

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

· Chgt g { g e q p w e v <

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

· Chgt u y c n y l p i <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

· U w k c d i g g z v l p i w k j l p i c i g p v u <Alcohol resistant foam, CO, powder, water spray/mist.

· H q t u c h g v t g c u p u w p u w k c d i g g z v l p i w k j l p i c i g p v u <

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.

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· Rt qvgevkxg gs wlr o gpv&lt;

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.

### · 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 cvkqp cdqwwkkg / cpf gznqkqp rtqvgevkqp&lt;

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

### · 7.2 Conditions for safe storage, including any incompatibilities

· Uqtcig&lt;

· Tgs wktgo gpwuvj dg o gvd{ wqtgtqo ucpf tgegrwengv&lt;

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 cvkqp cdqwwuqtcig kq qpg eqo o qp uqtcig hcektv&lt; Not required.

· Hwtvj gt kplqto cvkqp cdqwwuqtcig eqpfkqkqp&lt;

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

· Cffkqkqpnkplqto cvkqp cdqwwfgukip qhvgej ptecnkcektv&lt; No further data; see item 7.

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**· 8.1 Control parameters**

<i>· ĩpi tgf ĩpıuy ĩj ĩo ĩxcıguıj cvtgs wĩtg o qpkqt ĩpi cvıj gı y qtıııeg&lt;</i>	
<b>123-86-4 n-butyl acetate (30-49.99%)</b>	
WEL	Short-term value: 966 mg/m , 200 ppm Long-term value: 724 mg/m , 150 ppm
<b>141-78-6 ethyl acetate (30-49.99%)</b>	
WEL	Short-term value: 1468 mg/m , 400 ppm Long-term value: 734 mg/m , 200 ppm
<b>26471-62-5 m-tolylidene diisocyanate (≥0.1-&lt;0.5%)</b>	
WEL	Short-term value: 0.07 mg/m Long-term value: 0.02 mg/m Sen; as -NCO

**· FPGNu**

<b>123-86-4 n-butyl acetate</b>		
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)
<b>141-78-6 ethyl acetate</b>		
Oral	DNEL	4.5 mg/kg bw/d (population)
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)
<b>822-06-0 hexamethylene diisocyanate</b>		
Inhalative	DNEL acuto/agudo/ostre/aigu/acute/akut	0.07 mg/mc (Workers)
	DNEL	0.035 mg/mc (Workers)
<b>26471-62-5 m-tolylidene diisocyanate</b>		
Inhalative	DNEL acuto/agudo/ostre/aigu/acute/akut	0.14 mg/mc (Workers)
	DNEL	0.035 mg/mc (Workers)

**· RPGEu**

<b>123-86-4 n-butyl acetate</b>	
PNEC Acqua dolce/water/woda sĳpdka/eau/agua/	0.18 mg/L ( )
PNEC Suolo/earth/suelo/ /	0.0903 mg/kg ( )
<b>141-78-6 ethyl acetate</b>	
PNEC Acqua dolce/water/woda sĳpdka/eau/agua/	0.24 mg/L ( )

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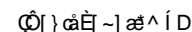
## Safety data sheet

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

Printing date 05.02.2020

Version number 434

Revision: 30.01.2020

**Product code TX72****Trade name: NON-YELLOWING PU HARDENER**


PNEC Suolo/earth/suelo/ /地面	0.148 mg/kg ( )
<b>822-06-0 hexamethylene diisocyanate</b>	
PNEC Acqua dolce/water/woda sjođka/eau/agua/水	75 mg/L ( )
PNEC Suolo/earth/suelo/ /地面	0.0027 mg/kg ( )
<b>26471-62-5 m-tolylidene diisocyanate</b>	
PNEC Acqua dolce/water/woda sjođka/eau/agua/水	0.013 mg/L ( )
PNEC Suolo/earth/suelo/ /地面	1.1 mg/kg ( )

· Cf fklkqpcnlphqto cvkqp < The lists valid during the making were used as basis.

### 8.2 Exposure controls

· Rgtuqpcnrtqgvevkxg gs wlr o gpv<

· I gpgtcnrtqgvevkxg cpf j {i kpkle o gcwvtguk<

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 k cvqt { rt qgvevkqp <

Short term filter device:

Filter AX



Suitable respiratory protective device recommended. (EN140)

· Rt qgvevkqp qhj cpf uk<



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 cvgtknqhi 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.

· Rgpvtcvkqp vto g qhi npxg o cvgtkn

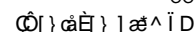
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Gfg rt qgvevkqp <



Glasses (EN166) or other protective equipment

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## Safety data sheet

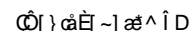
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Printing date 05.02.2020

Version number 434

Revision: 30.01.2020

**Product code TX72**  
**Trade name: NON-YELLOWING PU HARDENER**



### SECTION 9: Physical and chemical properties

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

· I gpgtcnklqto cwtq	
· Crrgctcpeg<	
· Hqt <	Fluid
· Eqwt <	According to product specification
· Qfqt <	Characteristic
· Qfqt vj t gij qf <	Not determined.
· rJ /xcwtg<	Not determined.
· Ej cpi g lp eqpfklq	
· Ognkpi rqlpvlltgg/lpi rqlpv<	Undetermined.
· Kklcndqklpi rqlpvcpf dqklpi t cpi g<	77 °C
· Hvcj rqlpv<	-4 °C
· Hco o cdlklf *uqkf. i cu<	Not applicable.
· K plqpp vgo rgtcwtg<	370 °C
· Fgeqo rqlqpp vgo rgtcwtg<	Not determined.
· Cwtq/li plqpp vgo rgtcwtg<	Product is not selfigniting.
· Gzr iqukg rtgrgtvkg<	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Gzr iquqpp ilo kv<	
· Ngy gt <	1.2 Vol %
· Wrrgt <	11.5 Vol %
· Xcrqt rtguwtg cv42 °C:	97 hPa
· Density at 20 °C:	0.978 g/cm
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
· Dynamic:	Not determined.
· Kinematic at 20 °C:	29 s (ISO 3 mm)
· Oxidising properties :	N.A.
· Solvent content:	
· VOC and Total VOC	
(organic solvents + reactive solvents if any)	74.80 %
· VOC (EC)	731.5 g/l
· Solids content:	25.0 %
· 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

(Contd. on page 8)

## Safety data sheet

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

Printing date 05.02.2020

Version number 434

Revision: 30.01.2020

**Product code TX72****Trade name: NON-YELLOWING PU HARDENER**

(Contd. of page 7)

**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

### 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:****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)

**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)

**26426-91-5 Polyisocyanate HDI/TDI**

Oral	LD50	5,001 mg/kg (mouse)
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**822-06-0 hexamethylene diisocyanate**

Oral	LD50	738 mg/kg (mouse)
Dermal	LD50	7,001 mg/kg (mouse)
Inhalative	LC50/4 h	0.124 mg/l (mouse)

**26471-62-5 m-tolylidene diisocyanate**

Oral	LD50	5,110 mg/kg (mouse)
Dermal	LD50	9,401 mg/kg (rabbit)
Inhalative	LC50/4h.	0.107 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 allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

· **Sensitisation**

Toluene-diisocyanate (mixture of isomers)

Skin sensitization (LLNA - Local Lymph Node Assay): mouse

positive Result

Method OECD TG 429

Respiratory sensitization

(Contd. on page 9)



**Product code TX72**  
**Trade name: NON-YELLOWING PU HARDENER**

(Contd. of page 8)

- May cause sensitization by inhalation
- **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.

## SECTION 12: Ecological information

### · 12.1 Toxicity

· <i>Aquatic toxicity:</i>	
<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>141-78-6 ethyl acetate</b>	
EC50	165 mg/l (daphnia) (48 h)
LC50 (96h)	230 mg/l (Fish)
<b>822-06-0 hexamethylene diisocyanate</b>	
EC50	77.5 mg/l (algae) (72 h) 89.2 mg/l (daphnia) (48 h)
LC50 (96h)	82.9 mg/l (Fish)
<b>26471-62-5 m-tolidene diisocyanate</b>	
EC50	12.5 mg/l (daphnia) (48h)
LC50 (96h)	133 mg/l (Leuciscus idus melanotus)

- **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.

(Contd. on page 10)

## Safety data sheet

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Version number 434

Revision: 30.01.2020

**Product code TX72**  
**Trade name: NON-YELLOWING PU HARDENER**

(Contd. of page 9)

- **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

- **14.6 Special precautions for user**

- **Danger code (Kemler):**

Warning: Flammable liquids.

33

- **EMS Number:**

F-E, S-E

- **Stowage Category**

B

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

Not applicable.

- **Transport/Additional information:**

- **ADR**

- **Limited quantities (LQ)**

5L

- **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

- **Transport category**

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(Contd. on page 11)

## Safety data sheet

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

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Version number 434

Revision: 30.01.2020

**Product code TX72****Trade name: NON-YELLOWING PU HARDENER**

(Contd. of page 10)

· <i>Tunnel restriction code</i>	D/E
· <b>IMDG</b>	
· <i>Limited quantities (LQ)</i>	5L
· <i>Excepted quantities (EQ)</i>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <i>UN "Model Regulation":</i>	UN 1263 PAINT, 3, II

### 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.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H412 Harmful to aquatic life with long lasting effects.

· *Department issuing SDS:* IVM Chemicals Srl

(Contd. on page 12)

## Safety data sheet

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

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**Product code TX72****Trade name: NON-YELLOWING PU HARDENER**

(Contd. of page 11)

· **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

Acute Tox. 1: Acute toxicity . Category 1

Acute Tox. 2: Acute toxicity . Category 2

Skin Corr. 1C: Skin corrosion/irritation . Category 1C

Skin Irrit. 2: Skin corrosion/irritation . Category 2

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

Resp. Sens. 1: Respiratory sensitisation . Category 1

Skin Sens. 1: Skin sensitisation . Category 1

Carc. 2: Carcinogenicity . Category 2

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

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.**