

Printing date 09/14/2022 Version number 114 Reviewed on 09/14/2022

1 Identification

- · Product identifier
 - · Product number TX12
 - · Trade name: PU HARDENER X VINYL INSUL
 - · Application of the substance / the mixture For professional use
- · 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

· Information department:

Environmental Health and safety office

hseoffice@ivmchemicals.com

· Emergency telephone number:

ChemTel Expert Assistance Hotline/SDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

2 Hazard(s) identification

· Classification of the substance or mixture

Flammable Liquids 2 H225 Highly flammable liquid and vapor.

Acute Toxicity - Oral 4 H302 Harmful if swallowed.

Eve Irritation 2A H319 Causes serious eye irritation.

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

Carcinogenicity 2 H351 Suspected of causing cancer.

Specific Target Organ Toxicity - Single Exposure 3H336 May cause drowsiness or dizziness.

Specific Target Organ Toxicity - Repeated

Exposure 2

H373 May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Oral, Inhalation.

H304 May be fatal if swallowed and enters airways.

· Label elements

Aspiration Hazard 1

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms







GHS02 GHS07 GHS08

- · Signal word Danger
- · Hazard-determining components of labeling: tris(p-isocyanatophenyl) thiophosphate ethyl acetate xylene

HDI Homopolymer

· Hazard statements

H225 Highly flammable liquid and vapor.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

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H336 May cause drowsiness or dizziness.

H373 May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Oral, Inhalation.

H304 May be fatal if swallowed and enters airways.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P301+P310 If swallowed: Immediately call a poison center/doctor.

P321 Specific treatment (see on this label).

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/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.

P330 Rinse mouth. P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 2Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2 Fire = 3Reactivity = 0

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

· Dangeroi	us components:	
141-78-6	ethyl acetate	
	 Flammable Liquids 2, H225 Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336 	
4151-51-3	tris(p-isocyanatophenyl) thiophosphate	12.5-15%
	♦ Acute Toxicity - Oral 3, H301	
1330-20-7	xylene	5-9.99%
	 Flammable Liquids 3, H226 Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304 	
	Acute Toxicity - Dermal 4, H312; Acute Toxicity - Inhalation 4, H332; Skin Irrititation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335 Aquatic Acute 3, H402; Aquatic Chronic 3, H412	

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28182-81-2	HDI Homopolymer	5-9.99%
	Acute Toxicity - Inhalation 4, H332; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	
100-41-4	ethylbenzene	1-2.49%
	 Flammable Liquids 2, H225 Carcinogenicity 2, H351; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304 Acute Toxicity - Inhalation 4, H332 Aquatic Chronic 3, H412 	
108-65-6	2-methoxy-1-methylethyl acetate	0.5-1%
	 Flammable Liquids 3, H226 Specific Target Organ Toxicity - Single Exposure 3, H336 	
108-90-7	chlorobenzene	≥0.25-<0.5%
	 Flammable Liquids 3, H226 Aquatic Chronic 2, H411 Acute Toxicity - Inhalation 4, H332; Skin Irrititation 2, H315 	
822-06-0	hexamethylene diisocyanate	<0.1%
	 Acute Toxicity - Inhalation 1, H330 Sensitization - Respiratory 1, H334 Acute Toxicity - Oral 4, H302; Skin Irrititation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335 	

4 First-aid measures

· Description of first aid measures

· General information:

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)

· After inhalation:

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

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

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Do not induce vomiting; immediately call for medical help. Immediately call a doctor.

- · Information for doctor:
 - · Most important symptoms and effects, both acute and delayed Allergic reactions

For symptoms and effects caused by substances, refer to Section 11.

· Indication of any immediate medical attention and special treatment needed No further relevant information available.



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5 Fire-fighting measures

· Extinguishing media

· Suitable extinguishing agents:

Alcohol resistant foam

Alcohol resistant foam, CO, powder, water spray/mist.

· For safety reasons unsuitable extinguishing agents:

Do not use a jet water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

In case of fire, the following can be released:

Nitrogen oxides (NOx)

Carbon monoxide (CO)

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.

· Protective equipment:

Hardhat with visor, fireproof clothing, suitable gloves and if necessary respiratory protective device.

6 Accidental release measures

· 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

- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 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 Section 13.

Ensure adequate ventilation.

· 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.

Protective Action Criteria for Chemicals

· PAC-1:		
141-78-6	ethyl acetate	1,200 ppm
1330-20-7	xylene	130 ppm
28182-81-2	HDI Homopolymer	7.8 mg/m³
100-41-4	ethylbenzene	33 ppm
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
108-90-7	chlorobenzene	10 ppm
· PAC-2:		
141-78-6	ethyl acetate	1,700 ppm
1330-20-7	xylene	920* ppm
28182-81-2	HDI Homopolymer	86 mg/m³
100-41-4	ethylbenzene	1100* ppm
	'	(Contd. on page 5



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108-65-6	2-methoxy-1-methylethyl acetate	(Contd. of page 4) 1,000 ppm
108-90-7	chlorobenzene	150 ppm
· PAC-3:		
141-78-6	ethyl acetate	10000** ppm
1330-20-7	xylene	2500* ppm
28182-81-2	HDI Homopolymer	510 mg/m³
100-41-4	ethylbenzene	1800* ppm
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
108-90-7	chlorobenzene	400 ppm

7 Handling and storage

· Handling:

· 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.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities

- · Storage:
 - · Requirements to be met by storerooms and receptacles:

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 not indicated, is from delivery date of goods.

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

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· Specific end use(s) Those typical of the product and the instructions in the data sheet if required.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

141-78	3-6 ethyl acetate
PEL	Long-term value: 1400 mg/m³, 400 ppm

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	Long-term value: 1400 mg/m³, 400 ppm	
	Long-term value: 400 ppm	
	0-7 xylene	
PEL	Long-term value: 435 mg/m³, 100 ppm	
REL	Short-term value: 655 mg/m³, 150 ppm	
	Long-term value: 435 mg/m³, 100 ppm	
TLV	Short-term value: (150) ppm	
	Long-term value: (100) NIC-20 ppm BEI, A4	
100-41.	-4 ethylbenzene	
	Long-term value: 435 mg/m³, 100 ppm	
REL	Short-term value: 545 mg/m³, 125 ppm	
,,,,,,	Long-term value: 435 mg/m³, 100 ppm	
TLV	Long-term value: 20 NIC-20 ppm	
	BEI, A3, NIC: OTO, BEI, A3	
108-65	-6 2-methoxy-1-methylethyl acetate	
WEEL	Long-term value: 50 ppm	
108-90	7 chlorobenzene	
PEL	Long-term value: 350 mg/m³, 75 ppm	
TLV	Long-term value: 10 ppm	
	BEI, A3	
	-0 hexamethylene diisocyanate	
REL	Long-term value: 0.035 mg/m³, 0.005 ppm	
	Ceiling limit value: 0.14* mg/m³, 0.02* ppm *10-min	
TIV		
TLV	Long-term value: 0.005 ppm BEI	
1220 2	· Ingredients with biological limit values:	
	0-7 xylene	
	5 g/g creatinine edium: urine	
	me: end of shift	
	rameter: Methylhippuric acids	
100-41-	-4 ethylbenzene	
BEI 0.	15 g/g creatinine	
Me	edium: urine	
	me: end of shift at end of workweek	
	rameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)	
	-7 chlorobenzene	
	10 mg/g creatinine edium: urine	
	ne: end of shift at end of workweek	
	arameter: 4-Chlorocatechol (with hydrolysis, nonspecific)	
	mg/g creatinine	
	edium: urine	
	me: end of shift at end of workweek arameter: p-Chlorophenol (with hydrolysis, nonspecific)	
	aarrerer revamminenn rynn nymynys HOUSDECHO	



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822-06-0 hexamethylene diisocyanate

BEI 15 μg/g creatinine Medium: urine

> Time: end of shift Parameter: 1.6-Hexamethylene diamine with hydrolysis (nonspecific)

· Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
 - · General protective and hygienic measures:

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 eyes and skin.

· Breathing equipment:

Short term filter device:



Suitable respiratory protective device recommended.

Filter A

· Protection of hands:



Protective gloves

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

The glove material has to be impermeable and resistant to the product.

· Material of gloves

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.

· Penetration time of glove material

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

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

- · Information on basic physical and chemical properties
 - · General Information
 - · Appearance:

· Form:

Fluid

· Color:

According to product specification

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· Odor:	Characteristic	
· Odor threshold:	Not determined.	
· pH-value:	Mixture is non-polar/aprotic.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
· Boiling point/Boiling range:	77 °C (170.6 °F)	
· Flash point:	-4 °C (24.8 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	430 °C (806 °F)	
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive. However air/vapor mixtures are possible.	, formation of explosiv
· Explosion limits:		
· Lower:	1 Vol %	
· Upper:	11.5 Vol %	
· Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)	
· Density (+/- 0,03) at 20 °C (68 °F):	0.918 g/cm³ (7.661 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
· Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/water	r): Not determined.	
· Viscosity:		
· Dynamic:	Not determined.	
· Kinematic at 20 °C (68 °F): · Oxidising properties:	29 s (ISO 3 mm) N.A.	
	74.71.	
· Solvent content: · VOC content:	80.51 %	
· voc comeni.	739.1 g/l / 6.17 lb/gal	
· Solids content:	19.5 %	
Other information (HAPS)		
1330-20-7 xylene		5-9.99%
100-41-4 ethylbenzene		1-2.49%
108-90-7 chlorobenzene		≥0.25-<0.5%
822-06-0 hexamethylene diisocyana	te	<0.1%
· Other information	No further relevant information ava	

10 Stability and reactivity

- · Reactivity typical of the product as indicated in the data sheet
- · Chemical stability The product is stable in normal conditions of storage and use recommended (Contd. on page 9)



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Thermal decomposition / conditions to be avoided:
 No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

Reacts with oxidizing agents.

Vapours may form explosive mixtures with air

- · Conditions to avoid No further relevant information available.
- · Incompatible materials: Acids, alkalis and oxidizing agents
- · Hazardous decomposition products:

in case of possible formation of combustion:

Carbon monoxide and carbon dioxide

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/	LC50 value	es that are relevant for classification:		
	ATE (Acute Toxicity Estimate)			
Oral	LD50	740 mg/kg		
Dermal	LD50	13,580 mg/kg (rabbit)		
Inhalative	LC50/4 h	71.9 mg/l		
141-78-6	ethyl aceta	ate		
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)		
1330-20-7	xylene			
Oral	LD50.	3,523 mg/kg (mouse)		
Dermal	LD50	1,100 mg/kg (rabbit) (ATE value)		
	LD50.	12,126 mg/kg (rabbit)		
Inhalative	LC50/4 h	11 mg/l (mouse) (ATE value)		
	LC50/4h.	27.571 mg/l (mouse)		
28182-81-	2 HDI Hor	nopolymer		
Oral	LD50	2,501 mg/kg (mouse)		
Dermal	LD50	2,001 mg/kg (rabbit)		
100-41-4	ethylbenz	ene		
Oral	LD50	3,500 mg/kg (mouse)		
Dermal	LD50	15,486 mg/kg (rabbit)		
Inhalative	LC50/4 h	17.2 mg/l (mouse)		
108-65-6	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)		
108-90-7	chloroben	zene		
Oral	LD50	2,290 mg/kg (mouse)		
		(Contd. on page 10		



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822-06-0 I	822-06-0 hexamethylene diisocyanate			
Oral	LD50	738 mg/kg (mouse)		
Dermal	LD50	7,001 mg/kg (rabbit)		
Inhalative	LC50/4 h	0.124 mg/l (mouse)		

· Primary irritant effect:

- on the skin: No irritant effect.
 on the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

Harmful Irritant

Harmful if swallowed.

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

May cause drowsiness or dizziness.

May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Oral. Inhalation.

May be fatal if swallowed and enters airways.

Contains isocyanates. May produce an allergic reaction.

· Carcinogenic categories

Ethylbenzene

From IARC MONOGRAPHS VOLUME 77/2000

Human carcinogenicity data

Two studies of workers potentially exposed to ethylbenzene in a production plant and a styrene polymerization plant were available. In the first study, no excess of cancer incidence was found but the description of methods was insufficient to allow proper evaluation of this finding. In the second study, no cancer mortality excess was observed during the follow-up of 15 years.

Evaluation

There is inadequate evidence in humans for the carcinogenicity of ethylbenzene. There is sufficient evidence in experimental animals for the carcinogenicity of ethylbenzene.

· IARC (International Agency	y for Research on	Cancer - Cl. 1 and 2)
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100-41-4 ethylbenzene

2B

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Sensitisation

Monomers / polymers isocyanate

Particular characteristics / effects; prolonged exposure may irritate the eyes, nose, throat and respiratory tract.

Isocyanate exposure may result in the delayed appearance of respiratory disorders, cough or asthma. Sensitive individuals may show exposure symptoms to isocyanates below workplace TLV values. Prolonged skin contact may result cause irritation and dehydration.



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12 Ecological information

Toxicity

· Toxicity					
\cdot Aquatic to	oxicity:				
141-78-6 ethyl acetate					
EC50	165 mg/l (daphnia) (48 h)				
LC50 (96h)	230 mg/l (Fish)				
1330-20-7 x	ylene				
EC50	2.2 mg/l (algae)				
LC50 48h	1 mg/l (daphnia)				
LC50 (96h)	2.6 mg/l (Fish)				
28182-81-2	28182-81-2 HDI Homopolymer				
EC50	1,001 mg/l (algae) (72 h)				
	127 mg/l (daphnia) (48 h)				
LC50 (96h)	100 mg/l (Fish)				
100-41-4 et	hylbenzene				
EC50	438 mg/l (algae) (72h)				
	1.8 mg/l (daphnia) (48 h)				
LC50 (96h)	12.1 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)				
822-06-0 he	examethylene diisocyanate				
EC50	77.5 mg/l (algae) (72 h)				
	89.2 mg/l (daphnia) (48 h)				
LC50 (96h)	82.9 mg/l (Fish)				

· Persistence and degradability No further relevant information available.

Substances Easily biodegradable 141-78-6 ethyl acetate 1330-20-7 xylene 100-41-4 ethylbenzene 108-65-6 2-methoxy-1-methylethyl acetate .

· Behavior in environmental systems:

- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.

· Additional ecological information:

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

· Other adverse effects No further relevant information available.

US



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13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Hand over to hazardous waste disposers.

Dispose of contents and container in accordance with local state and federal regulations.

- · Uncleaned packagings:
 - · Recommendation: Disposal must be made according to official regulations.

4 4			
14 Trans	nort int	ormai	ION
IT Halls		Ullila	

· UN-Number

· DOT, IMDG, IATA UN1263

· Note Check viscosity and flash point at section 9

· UN proper shipping name

· DOT Paint
· IMDG, IATA PAINT

· Transport hazard class(es)

 $\cdot DOT$



· Class 3 Flammable liquids

· Label

· Class 3 Flammable liquids

· Label

· IMDG, IATA



· Class 3 Flammable liquids

· Label 3

· Packing group

· DOT, IMDG, IATA

· Environmental hazards:

· Marine pollutant: No

· Special precautions for user Warning: Flammable liquids

· Hazard identification number (Kemler code): 33

• EMS Number: F-E,S-E

· Segregation groups Liquid halogenated hydrocarbons

· Stowage Category

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

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· Transport/Additional information:	
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- · IMDG
 - · Limited quantities (LQ)
 - · Excepted quantities (EQ)

5L

Code: E2

Maximum net quantity per inner packaging: 30

ml

Maximum net quantity per outer packaging:

500 ml

· UN "Model Regulation": UN 1263 PAINT, 3, II

15 Regulatory information

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

Requirements of Federal Register

- · Various regulations
 - · SARA

-	Section 355 (extremely hazardous substances):			
None of the ingredients is listed.				
· Section 313 (Specific toxic chemical listings):				
1330-20-7	zylene	5-9.99%		
100-41-4	ethylbenzene	1-2.49%		
108-90-7	chlorobenzene	>0.25-<0.5%		

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

822-06-0 hexamethylene diisocyanate

· Hazardous	Air F	Pollutants
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1330-20-7 xylene

100-41-4 ethylbenzene

108-90-7 chlorobenzene

822-06-0 hexamethylene diisocyanate

· Proposition 65

· Chemicals known to cause cancer:

100-41-4 ethylbenzene

* 1-2.49%

<0.1%

· Chemicals known to cause reproductive toxicity for females:

70657-70-4 2-methoxypropyl acetate

<0.01%

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

1330-20-7 xylene

5-9.99%

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PU HARDENER X VINYL INSUL Trade name:

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	ethylbenzene	D	1-2.49%		
108-90-7	chlorobenzene	D	≥ <i>0.25</i> -< <i>0.5</i> %		
	LV (Threshold Limit Value)				
1330-20-7	xylene		A4		
	ethylbenzene		A3		
108-90-7	chlorobenzene		A3		
· NIOSH-Ca (National Institute for Occupational Safety and Health)					
None of th	e ingredients is listed.				

· National regulations:

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

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

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.

- · Department issuing SDS: IVM Chemicals Srl
- · Contact: See emergency phone
 - · Date of preparation / last revision 09/14/2022 / 113
 - · Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flammable Liquids 2: Flammable liquids - Category 2

Flammable Liquids 3: Flammable liquids - Category 3

Acute Toxicity - Oral 3: Acute toxicity - Category 3

Acute Toxicity - Dermal 4: Acute toxicity - Category 4

Acute Toxicity - Inhalation 1: Acute toxicity - Category 1 Skin Irrititation 2: Skin corrosion/irritation - Category 2

Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A

Sensitization - Respiratory 1: Respiratory sensitisation - Category 1

Sensitization - Skin 1: Skin sensitisation - Category 1

Carcinogenicity 2: Carcinogenicity – Category 2
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2

Aspiration Hazard 1: Aspiration hazard - Category 1

Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard - Category 3

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

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

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Safety Data Sheet acc. to OSHA HCS

Printing date 09/14/2022

Version number 114

Reviewed on 09/14/2022

Product number TX12

Trade name: PU HARDENER X VINYL INSUL

(Contd. of page 14)

IARC International agency for research on cancer

* Data compared to the previous version altered.

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