

Printing date 09/07/2022 Version number 33

Reviewed on 09/07/2022

## 1 Identification

- · Product identifier
  - · Product number TF1525
  - · Trade name: PU CLEAR INSULATOR
    - · 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.
Skin Irrititation 2	H315	Causes skin irritation.
Eye Irritation 2A	H319	Causes serious eye irritation.
Sensitization - Respiratory 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Sensitization - Skin 1	H317	May cause an allergic skin reaction.
Carcinogenicity 2	H351	Suspected of causing cancer.
Toxic to Reproduction 2	H361	Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity - Single Exposure	9 3H335-H33	6 May cause respiratory irritation. May cause drowsiness or dizziness.
Specific Target Organ Toxicity - Repeated Exposure 2	H373	May cause damage to the central nervous system, the hearing organs and the respiratory tract through prolonged or repeated exposure. Route of exposure: Oral, Inhalation.
Aspiration Hazard 1	H304	May be fatal if swallowed and enters airways.

### · Label elements

· GHS label elements

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

· Hazard pictograms







GHS02 GHS07 GHS08

· Signal word Danger

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#### · Hazard-determining components of labeling:

toluene

ethyl acetate

4,4'-methylenediphenyl diisocyanate

Aromatic polyisocyanate

4-isocyanatesulphonyltoluene

### · Hazard statements

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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

H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

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

H373 May cause damage to the central nervous system, the hearing organs and the

respiratory tract 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).

P331 Do NOT induce vomiting.

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.

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

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 = 2

Fire = 3

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = \*2

Fire = 3

Reactivity = 0

## 3 Composition/information on ingredients

#### · Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

· Dangerous components:

141-78-6 ethyl acetate

40-49.99%

Flammable Liquids 2, H225

Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336

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110-19-0	isobutyl acetate	Contd. of page 2 12.5-15%
	Flammable Liquids 2, H225 Specific Target Organ Toxicity - Single Exposure 3, H336	
108-88-3	toluene  ♦ Flammable Liquids 2, H225 ♦ Toxic to Reproduction 2, H361; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304 ♦ Skin Irrititation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H336 Aquatic Chronic 3, H412	10-12.49%
53317-61-6	Aromatic polyisocyanate  © Eye Irritation 2A, H319; Sensitization - Skin 1, H317	2.5-4.99%
101-68-8	<ul> <li>4,4'-methylenediphenyl diisocyanate</li> <li>Sensitization - Respiratory 1, H334; Carcinogenicity 2, H351; Specific Target Organ Toxicity - Repeated Exposure 2, H373</li> <li>Acute Toxicity - Inhalation 4, H332; Skin Irrititation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335</li> </ul>	2.5-4.99%
108-65-6	2-methoxy-1-methylethyl acetate  Tlammable Liquids 3, H226  Specific Target Organ Toxicity - Single Exposure 3, H336	2.5-4.99%
4083-64-1	4-isocyanatesulphonyltoluene  Sensitization - Respiratory 1, H334 Skin Irrititation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	1-2.49%
26471-62-5	m-tolylidene diisocyanate	<0.1%

## 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.

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. If medical advise is needed have products container or label at hand.

· 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.

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· 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.

## 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
110-19-0 isobutyl acetate	450 ppm
108-88-3 toluene	67 ppm
101-68-8 4,4'-methylenediphenyl diisocyanate	0.45 mg/m³
108-65-6 2-methoxy-1-methylethyl acetate	50 ppm
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· PAC-2	:		
141-78-6	ethyl acetate	1,700 ppm	
110-19-0	isobutyl acetate	1300* ppm	
108-88-3	toluene	560 ppm	
101-68-8	4,4'-methylenediphenyl diisocyanate	5 mg/m³	
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm	
· PAC-3	· PAC-3:		
141-78-6	ethyl acetate	10000** ppm	
110-19-0	isobutyl acetate	7500** ppm	
108-88-3	toluene	3700* ppm	
101-68-8	4,4'-methylenediphenyl diisocyanate	55 mg/m³	
108-65-6	2-methoxy-1-methylethyl acetate	5000* 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.
- $\cdot \textit{Further information about storage conditions:} \\$

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.

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	Λ+.	this time, the other constituents have no known expecure limits	(Contd. of page 5)
Г		this time, the other constituents have no known exposure limits.  8-6 ethyl acetate	
-	PEL	Long-term value: 1400 mg/m³, 400 ppm	
	REL	Long-term value: 1400 mg/m³, 400 ppm	
-	TLV	Long-term value: 400 ppm	
L		9-0 isobutyl acetate	
	PEL	Long-term value: 700 mg/m³, 150 ppm	
	REL	Long-term value: 700 mg/m³, 150 ppm	
	TLV	Short-term value: 150 ppm Long-term value: 50 ppm	
	108-88	3-3 toluene	
	PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift	
	REL	Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm	
	TLV	Long-term value: 20 ppm BEI, OTO, A4	
Ī	101-68	3-8 4,4'-methylenediphenyl diisocyanate	
	PEL	Ceiling limit value: 0.2 mg/m³, 0.02 ppm	
	REL	Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit value: 0.2* mg/m³, 0.02* ppm *10-min	
	TLV	Long-term value: 0.005 ppm	
	108-65	5-6 2-methoxy-1-methylethyl acetate	
	WEEL	Long-term value: 50 ppm	
	26471	-62-5 m-tolylidene diisocyanate	
	PEL	Ceiling limit value: 0.14 mg/m³, 0.02 ppm	
	REL	LFC	
	TLV	Short-term value: (0.14) NIC-0.021* mg/m³, (0.02) NIC-0.003* ppm Long-term value: (0.036) NIC-0.007* mg/m³, (0.005) NIC-0.001* ppm	

# · Ingredients with biological limit values:

## 108-88-3 toluene

BEI 0.02 mg/L

Medium: blood

Time: prior to last shift of workweek

\*(IFV) SEN; NIC-Skin; A3

Parameter: Toluene

0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene

0.3 mg/g creatinine Medium: urine Time: end of shift

Parameter: o-Cresol with hydrolysis (background)

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· 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.

Pregnant women should strictly avoid inhalation or skin contact.

· 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

Odor: CharacteristicOdor threshold: Not determined.

• pH-value: Mixture is non-polar/aprotic.

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· Change in condition · Melting point/Melting range: · Boiling point/Boiling range:	Undetermined. 77°C (170.6°F)	
· Flash point:	-4 °C (24.8 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	315 °C (599 °F)	
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive. However, form air/vapor mixtures are possible.	ation of explosiv
· Explosion limits: · Lower: · Upper:	1.2 Vol % 11.5 Vol %	
· Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)	
<ul> <li>Density (+/- 0,03) at 20 °C (68 °F):</li> <li>Relative density</li> <li>Vapor density</li> <li>Evaporation rate</li> </ul>	0.943 g/cm³ (7.869 lbs/gal) Not determined. Not determined. Not determined.	
· Solubility in / Miscibility with · Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/water	·): Not determined.	
· Viscosity: · Dynamic: · Kinematic at 20 °C (68 °F): · Oxidising properties:	Not determined. 40 s (ISO 4 mm) N.A.	
· Solvent content: · VOC content:	76.92 % 725.3 g/l / 6.05 lb/gal	
· Solids content:	23.1 %	
· Other information (HAPS)		
108-88-3 toluene		10-12.49%
101-68-8 4,4'-methylenediphenyl di	iisocyanate	2.5-4.99%
26471-62-5 m-tolylidene diisocyanate		<0.1%
Other information	No further relevant information available.	,

# 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
  - · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

- · Possibility of hazardous reactions Vapours may form explosive mixtures with air
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: Acids, alkalis and oxidizing agents

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## · 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 values that are relevant for classification:
ATE (Acute Toxicity Estimate)
Inhalative LC50/4 h 34.3 mg/l

		<del>-</del>
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 i	sobutyl a	cetate
Oral	LD50	13,400 mg/kg (mouse)
Dermal	LD50	17,401 mg/kg (rabbit)
Inhalative	LC50/4 h	31 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)
53317-61-	6 Aromati	ic polyisocyanate
Oral	LD50	5,001 mg/kg (mouse)
101-68-8	4,4'-methy	lenediphenyl diisocyanate
Oral	LD50	2,001 mg/kg (mouse)
Dermal	LD50	9,401 mg/kg (rabbit)
Inhalative	LC50/4h.	0.368 mg/l (mouse)
108-65-6	2-methoxy	r-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)
26471-62-	5 m-tolyli	dene diisocyanate
Oral	LD50	5,110 mg/kg (mouse)
Dermal	LD50	9,401 mg/kg (rabbit)
Inhalative	LC50/4 h	0.107 mg/l (mouse)

- · Primary irritant effect:
  - on the skin: Irritant to skin and mucous membranes.
  - · on the eye: Irritating effect.
- · Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

· Additional toxicological information:

Harmful

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Irritant

Causes skin irritation.

Causes serious eye irritation.

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

May cause an allergic skin reaction.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

May cause respiratory irritation.

May cause drowsiness or dizziness.

May cause damage to the central nervous system, the hearing organs and the respiratory tract 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.

As from 24 August 2023 adequate training is required before industrial or professional use.

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer - Cl. 1 and 2)		
26471-62-5	m-tolylidene diisocyanate	2B
98-88-4	benzoyl chloride	2A
$\cdot NT$	P (National Toxicology Program)	
26471-62-5	m-tolylidene diisocyanate	<0.1%
· 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.

## 12 Ecological information

## · Toxicity

· I Oxicity	
· Aquatic t	oxicity:
141-78-6 et	hyl acetate
EC50	165 mg/l (daphnia) (48 h)
LC50 (96h)	230 mg/l (Fish)
110-19-0 is	obutyl acetate
EC50	370 mg/l (algae) (72 h)
	25 mg/l (daphnia)
LC50 (96h)	17 mg/l (Fish)
108-88-3 to	luene
EC50	134 mg/l (algae) (96 h)
	3.78 mg/l (daphnia) (48 h)
LC50 (96h)	5.5 mg/l (Fish)
101-68-8 4,	4'-methylenediphenyl diisocyanate
EC50	1,001 mg/l (daphnia) (24 h)
LC50 (96h)	1,001 mg/l (Fish) (96 h)
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	(Contd. of page 10)		
108-65-6 2-	108-65-6 2-methoxy-1-methylethyl acetate		
	1,001 mg/l (algae) (72 h)		
	501 mg/l (daphnia) (48 h)		
LC50 (96h)	134 mg/l (Fish)		
26471-62-5	m-tolylidene diisocyanate		
EC50	12.5 mg/l (daphnia) (48h)		
LC50 (96h)	133 mg/l (Leuciscus idus melanotus)		

· Persistence and degradability No further relevant information available.

· Substa	nces Easily biodegradable	
141-78-6	ethyl acetate	
110-19-0	isobutyl acetate	
108-88-3	toluene	
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.

## 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.

UN-Number		
· DOT, IMDG, IATA	UN1263	
· Note	Check viscosity and flash point at section 9	
UN proper shipping name		
$\cdot DOT$	Paint	
· IMDG, IATA	PAINT	



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## · Transport hazard class(es)

 $\cdot DOT$ 



· Class

· Label

· Class

· Label

3 Flammable liquids

3

3 Flammable liquids

3

· IMDG, IATA



· Class · Label 3 Flammable liquids

Packing group

· DOT, IMDG, IATA

II

· Environmental hazards:

· Marine pollutant:

No

· Special precautions for user

Warning: Flammable liquids

· Hazard identification number (Kemler code):

F-E,S-E · EMS Number:

· Stowage Category В

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code

Not applicable.

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· Transport/Additional information:

· Excepted quantities (EQ)

· IMDG

· Limited quantities (LQ)

5L

Code: E2

Maximum net quantity per inner packaging: 30

Maximum net quantity per outer packaging:

500 ml

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

# 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
  - · Various regulations
    - - · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

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· Se	ction 313 (Specific toxic chemical listings):			
108-88-3	·3 toluene		10-12.49%	
101-68-8	1-68-8 4,4'-methylenediphenyl diisocyanate		2.5-4.99%	
26471-62-5	6471-62-5 m-tolylidene diisocyanate		<0.1%	
98-88-4	benzoyl chloride		<0.01	%
· TSCA	(Toxic Substances Control Act):			
All compone	ents have the value ACTIVE.			
· Ha	zardous Air Pollutants			
108-88-3 to	luene			
101-68-8 4,	4'-methylenediphenyl diisocyanate			
	sition 65			
	emicals known to cause cancer:			
26471-62-5	5 m-tolylidene diisocyanate * <0.1			
· Ch	emicals known to cause reproductive toxicity for females:			
70657-70-4 2-methoxypropyl acetate				0.1%
· Ch	emicals known to cause reproductive toxicity for males:			
None of the	ingredients is listed.			
· Ch	emicals known to cause developmental toxicity:			
108-88-3 toluene 10		10-12	.49%	
· Carcii	nogenic categories			
· <i>EF</i>	PA (Environmental Protection Agency)			
108-88-3 to	luene	<i>II</i>	10-12	.49%
101-68-8 4,	4'-methylenediphenyl diisocyanate	D, CBD	2.5-4	.99%
· TI	V (Threshold Limit Value)	•		
108-88-3	toluene			A4
26471-62-5	m-tolylidene diisocyanate			(A4
98-88-4	benzoyl chloride			A4
· NI	OSH-Ca (National Institute for Occupational Safety and Health)			
None of the	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 09/07/2022 / 32
  - · 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)



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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 - Inhalation 1: Acute toxicity – Category 1
Acute Toxicity - Inhalation 4: Acute toxicity – Category 4
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

Toxic to Reproduction 2: Reproductive toxicity - 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 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
IARC International agency for research on cancer

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