

Printing date 02/12/2024 Version number 248 Reviewed on 02/09/2024

#### 1 Identification

- · Product identifier
  - · Product number TX19
  - · Trade name: POLYURETHANE HARDENER
    - · 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. H319 Causes serious eye irritation. Eye Irritation 2A Sensitization - Skin 1 H317 May cause an allergic skin reaction.

Toxic to Reproduction 2 H361 Suspected of damaging fertility or the

unborn child.

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 central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Oral and Inhalation.

#### · 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

· Hazard-determining components of labeling:

Aromatic polyisocyanate

butanone

toluene

· Hazard statements

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

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

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· Precautionary statements

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

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

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.

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 = 3Reactivity = 0

## 3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

· Dangerous components:			
78-93-3	butanone  Flammable Liquids 2, H225 Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	30-39.99%	
123-86-4	n-butyl acetate  Plammable Liquids 3, H226 Specific Target Organ Toxicity - Single Exposure 3, H336	30-39.99%	
53317-61-6	Aromatic polyisocyanate  © Eye Irritation 2A, H319; Sensitization - Skin 1, H317	15-19.99%	
9017-01-0	Aromatic polyisocyanate  © Eye Irritation 2A, H319; Sensitization - Skin 1, H317	10-12.49%	
141-78-6	ethyl acetate  Flammable Liquids 2, H225  Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	5-9.99%	
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 Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H336 Aquatic Chronic 3, H412	2.5-4.99%	
108-65-6	2-methoxy-1-methylethyl acetate  Flammable Liquids 3, H226 Specific Target Organ Toxicity - Single Exposure 3, H336	1-2.49%	

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26471-62-5 m-tolylidene diisocyanate

- 🥎 Acute Toxicity Inhalation 1, H330
- \lambda Sensitization Respiratory 1, H334; Carcinogenicity 2, H351
- Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization Skin 1, H317: Specific Target Organ Toxicity - Single Exposure 3, H335

Aquatic Chronic 3. H412

#### 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 eve 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.
- · 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.



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### 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:			
78-93-3	3-3 butanone 20		
123-86-4	n-butyl acetate	5 ppm	
141-78-6	ethyl acetate	1,200 ppm	
108-88-3	toluene	67 ppm	
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm	
· PAC-2	:		
78-93-3	butanone	2700* ppm	
123-86-4	23-86-4 n-butyl acetate		
141-78-6	78-6 ethyl acetate 1,		
108-88-3	88-3 toluene 56		
108-65-6	5 2-methoxy-1-methylethyl acetate 1,		
· PAC-3	· PAC-3:		
78-93-3	-3 butanone 4000*		
123-86-4	r-4 n-butyl acetate 3000		
141-78-6	6 ethyl acetate 10000		
108-88-3	3 toluene 3700*		
108-65-6	6 2-methoxy-1-methylethyl acetate 5000* p		

## 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.

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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 section 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.

	,		
<b>78-93</b>	3 butanone		
PEL	Long-term value: 590 mg/m³, 200 ppm		
REL	Short-term value: 885 mg/m³, 300 ppm Long-term value: 590 mg/m³, 200 ppm		
TLV	Short-term value: NIC-150 (300) ppm Long-term value: NIC-75 (200) ppm BEI, NIC-Skin		
123-8	6-4 n-butyl acetate		
PEL	Long-term value: 710 mg/m³, 150 ppm		
REL	Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm		
TLV	Short-term value: 150 ppm Long-term value: 50 ppm		
141-7	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		
108-8	B-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		

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108-65-6 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

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

· Regulatory information

PEL: Guide to Occupational Exposure Values (OSHA PELs) REL: Guide to Occupational Exposure Values (NIOSH RELs) TLV: Guide to Occupational Exposure Values (TLV)

WEEL: Guide to Occupational Exposure Values (AIHA WEELs)

#### · Ingredients with biological limit values:

#### 78-93-3 butanone

#### BEI 2 mg/L

Medium: urine Time: end of shift

Parameter: Methyl ethyl ketone (nonspecific)

#### 108-88-3 toluene

#### BEI 0.02 mg/L

Medium: blood

Time: prior to last shift of workweek

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)

- · Regulatory information BEI: Guide to Occupational Exposure Values (BEI)
- · 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.



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#### 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

31 Hysical and chemical proper		
· Information on basic physical and chemical properties		
· General Information		
· Color:	According to product specification	
· 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):	Highly flammable.	
· Auto igniting:	315 °C (599 °F)	
· Decomposition temperature:	Not determined.	
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.	
· Explosion limits:		
· Lower:	1.2 Vol %	
· Upper:	11.5 Vol %	
· Vapor pressure at 20 °C (68 °F):	105 hPa (78.8 mm Hg)	
· Vapor pressure at 50 °C (122 °F):	360 hPa (270 mm Hg)	
· Density (+/- 0,03) at 20 °C (68 °F):	0.978 g/cm³ (8.161 lbs/gal)	
· Relative density	Not determined.	

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· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
· Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wat	er): Not determined.	
· Viscosity:		
· Dynamic:	Not determined.	
· Kinematic at 20 °C (68 °F):	29 s (ISO 3 mm)	
· Oxidising properties:	N.A.	
· Solvent content:		
· VOC content:	73.74 %	
	721.2 g/l / 6.02 lb/gal	
· Solids content:	26.2 %	
Other information (HAPS)		
108-88-3 toluene		2.5-4.99%
26471-62-5 m-tolylidene diisocyana	te	<0.1%

# 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
  - $\cdot \textit{Thermal decomposition / conditions to be avoided:} \\$

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
- Hazardous decomposition products:

in case of possible formation of combustion:

Carbon monoxide and carbon dioxide

# 11 Toxicological information

- · Information on toxicological effects
  - · Acute toxicity:

	The state of the s	
· LD/LC50 values that are relevant for classification:		
78-93-3 b	utanone	
Oral	LD50	2,001 mg/kg (mouse)
Dermal	LD50	5,001 mg/kg (rabbit)
Inhalative	LC50/4 ore/h/saat	21 mg/l (mouse)
123-86-4 n-butyl acetate		
Oral	LD50	10,760 mg/kg (mouse)
Dermal	LD50	14,000 mg/kg (rabbit)
Inhalative	LC50/4 ore/h/saat	21.1 mg/l (mouse)
53317-61-6 Aromatic polyisocyanate		
Oral	LD50	5,001 mg/kg (mouse)
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9017-01-0 Aromatic polyisocyanate			
Oral	LD50	2,001 mg/kg (mouse) (OECD TG 423)	
		Esami tossicologici su un prodotto compatibile	
141-78-6	ethyl acetate		
Oral	LD50	4,934 mg/kg (rabbit)	
Dermal	LD50	20,001 mg/kg (rabbit)	
Inhalative	LC50/4 ore/h/saat	1,600 mg/l (mouse)	
	LC0	22.6 ppm (mouse)	
108-88-3	toluene		
Oral	LD50	5,000 mg/kg (mouse)	
Dermal	LD50	12,124 mg/kg (rabbit)	
Inhalative	LC50/4 ore/h/saat	25.7 mg/l (mouse)	
108-65-6 2-methoxy-1-methylethyl acetate			
Oral	LD50	8,532 mg/kg (mouse)	
Dermal	LD50	5,001 mg/kg (rabbit)	
Inhalative	LC50/4 ore/h/saat	35.7 mg/l (mouse)	
26471-62-5 m-tolylidene diisocyanate			
Oral	LD50	5,110 mg/kg (mouse)	
Dermal	LD50	9,401 mg/kg (rabbit)	
Inhalative	LC50/4 ore/h/saat	0.107 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:

Irritant

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

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

Contains isocyanates. See information supplied by the manufacturer.

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer - Cl. 1 and 2)		
26471-62-5 m-tolylidene diisocyanate	2B	
· NTP (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.



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# 12 Ecological information

### · Toxicity

OXICITY			
· Aquatic toxicity:	<u> </u>		
78-93-3 butanone			
EC50	2,029 mg/l (algae) (96 h)		
	308 mg/l (daphnia) (48 h)		
LC50 (96 ore/h/saat)	2,993 mg/l (Fish)		
123-86-4 n-butyl ace	etate		
EC50	397 mg/l (algae) (72 h)		
	44 mg/l (daphnia) (48 h)		
LC50 (96 ore/h/saat)	18 mg/l (Fish)		
141-78-6 ethyl aceta	te		
EC50	165 mg/l (daphnia) (48 h)		
LC50 (96 ore/h/saat)	230 mg/l (Fish)		
108-88-3 toluene			
EC50	134 mg/l (algae) (96 h)		
	3.78 mg/l (daphnia) (48 h)		
LC50 (96 ore/h/saat)	5.5 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 (96 ore/h/saat)	134 mg/l (Fish)		
26471-62-5 m-tolylidene diisocyanate			
EC50	12.5 mg/l (daphnia) (48h)		
LC50 (96 ore/h/saat)	133 mg/l (Leuciscus idus melanotus)		

### · Persistence and degradability No further relevant information available.

· Substa	nces Easily biodegradable	
78-93-3 butanone		
123-86-4	n-butyl acetate	
141-78-6	ethyl acetate	
108-88-3	toluene	
108-65-6	2-methoxy-1-methylethyl acetate	

### · Behavior in environmental systems:

· Bioaccumulative potential		
78-93-3	butanone	Coefficiente di ripartizione n-ottanolo/acqua (Log Kow): 0,3
123-86-4	n-butyl acetate	Coefficiente di ripartizione n-ottanolo/acqua (Log Kow): 2,3
141-78-6	ethyl acetate	Coefficiente di ripartizione n-ottanolo/acqua (Log Kow): 0,68
108-88-3	toluene	Coefficiente di ripartizione n-ottanolo/acqua (Log Kow): 2,73
108-65-6	2-methoxy-1-methylethyl acetate	Coefficiente di ripartizione n-ottanolo/acqua (Log Kow): 1,2
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· Mobility in soil		
78-93-3	butanone	Evapora rapidamente.
141-78-6	ethyl acetate	Basso potenziale di adsorbimento nel suolo
108-88-3	toluene	Coefficiente di assorbimento normalizzato del carbonio organico (Log Koc): 205

#### · Additional ecological information:

· General notes:

Water hazard class 1 (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.

· 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.

14 I	rans	port i	ntori	nation

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· 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

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(Contd. of page 11) · Label 3 · Packing group · DOT, IMDG, IATA 11 · Environmental hazards: · Marine pollutant: No · Special precautions for user Warning: Flammable liquids · Hazard identification number (Kemler code): 33 · EMS Number: *F-E,<u>S-E</u>* В · Stowage Category · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: · IMDG 5L · Limited quantities (LQ) · Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 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

· Se	ction 355 (extremely hazardous substances):	
None of the	ingredients is listed.	
· Se	ction 313 (Specific toxic chemical listings) :	
108-88-3	toluene	2.5-4.99%
26471-62-5	m-tolylidene diisocyanate	<0.1%
· TSCA	(Toxic Substances Control Act):	
All compon	ents have the value ACTIVE.	
· H	azardous Air Pollutants	
108-88-3 to	pluene	
· Propo	osition 65	
· CI	nemicals known to cause cancer:	
26471-62-5	m-tolylidene diisocyanate	* <0.1%
· CI	hemicals known to cause reproductive toxicity for females:	
70657-70-4	2-methoxypropyl acetate	<0.01%
	hemicals known to cause reproductive toxicity for males:	
· CI	temicus known to cause reproductive toxicity for maies.	



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٠ (	Chemicals known to cause developmental toxicity:			
108-88-3 toluene				1.99%
· Car	cinogenic categories			
. j	EPA (Environmental Protection Agency)			
78-93-3	butanone		30-39	9.99%
108-88-3 toluene			II 2.5-4.99	
• ′	TLV (Threshold Limit Value)			
108-88-3 toluene				A4
26471-62-5 m-tolylidene diisocyanate			(A4)	
• 1	NIOSH-Ca (National Institute for Occupational Safety and Health)			
None of th	ne 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 02/12/2024
  - · Abbreviations and acronvms:

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 - Inhalation 1: Acute toxicity - Category 1

Skin Irritation 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

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

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Agency ECHA web site
INRS Fiche Toxicologique
IARC International agency for research on cancer
\* Data compared to the previous version altered.

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