

1 Identification

- **Product identifier**
 - *Product number* TE72222
 - *Trade name:* **UV solv-b. clear sealer**
 - *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 4 H227 Combustible liquid. Flam. Liq. 4
 Skin Irritation 2 H315 Causes skin irritation.
 Eye Damage 1 H318 Causes serious eye damage.
 Sensitization - Skin 1 H317 May cause an allergic skin reaction.
 Carcinogenicity 1A H350 May cause cancer. Route of exposure: Inhalation.
 Aquatic Acute 2 H401 Toxic to aquatic life.
 Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **Label elements**

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

- *Hazard pictograms*



GHS05 GHS07 GHS08

- *Signal word* Danger

- *Hazard-determining components of labeling:*

oxybis(methyl-2,1-ethanediyl) diacrylate
 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane,
 esters with acrylic acid
 Quartz (SiO₂)
 Glycerol, propoxylated, esters with acrylic acid
 hexamethylene diacrylate
 (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

- *Hazard statements*

H227 Combustible liquid. Flam. Liq. 4
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H317 May cause an allergic skin reaction.
 H350 May cause cancer. Route of exposure: Inhalation.
 H401 Toxic to aquatic life.
 H412 Harmful to aquatic life with long lasting effects.

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Precautionary statements

- P210 Keep away from flames and hot surfaces. . No smoking.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a poison center/doctor.
 P321 Specific treatment (see on this label).
 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.

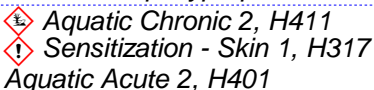
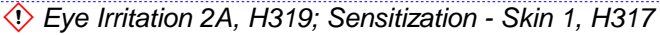
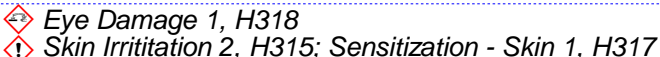
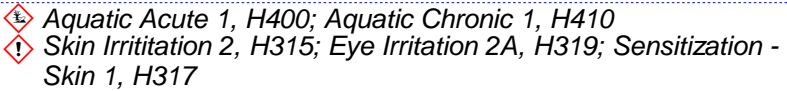
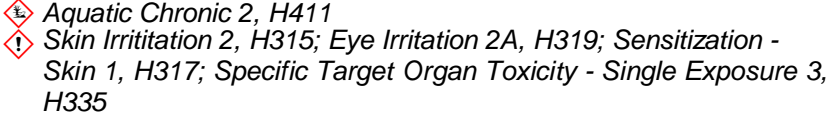
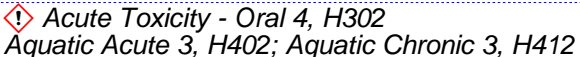
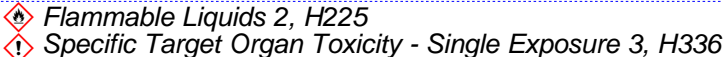
Classification system:**NFPA ratings (scale 0 - 4)****HMIS-ratings (scale 0 - 4)**

3 Composition/information on ingredients

Chemical characterization: Mixtures







Description: Mixture: consisting of the following components.

Dangerous components:

55818-57-0	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid 	≥2.5-<25%
52408-84-1	Glycerol, propoxylated, esters with acrylic acid 	≥10-<20%
57472-68-1	oxybis(methyl-2,1-ethanediyl) diacrylate 	5-9.99%
13048-33-4	hexamethylene diacrylate 	≥2.5-<10%
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate 	2.5-4.99%
7473-98-5	2-hydroxy-2-methylpropiophenone 	2.5-<25%
110-19-0	isobutyl acetate 	1-2.49%

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		(Contd. of page 2)
14808-60-7	Quartz (SiO ₂)  Carcinogenicity 1A, H350	≥0.1-<0.5%
108-65-6	2-methoxy-1-methylethyl acetate  Flammable Liquids 3, H226  Specific Target Organ Toxicity - Single Exposure 3, H336	<0.5%
108-31-6	maleic anhydride  Sensitization - Respiratory 1, H334  Skin Corrosion 1B, H314  Acute Toxicity - Oral 4, H302; Sensitization - Skin 1, H317	≥0.001-<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.

- **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:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **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**

In case of fire, the following can be released:

Nitrogen oxides (NO_x)

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.

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· 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

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources

· Environmental precautions:

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

Inform respective authorities in case of seepage into water course or sewage system.

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).

Use neutralizing agent.

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:		
13048-33-4	hexamethylene diacrylate	3 mg/m
110-19-0	isobutyl acetate	450 ppm
14808-60-7	Quartz (SiO ₂)	0.075 mg/m
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
· PAC-2:		
13048-33-4	hexamethylene diacrylate	170 mg/m
110-19-0	isobutyl acetate	1300* ppm
14808-60-7	Quartz (SiO ₂)	33 mg/m
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
· PAC-3:		
13048-33-4	hexamethylene diacrylate	990 mg/m
110-19-0	isobutyl acetate	7500** ppm
14808-60-7	Quartz (SiO ₂)	200 mg/m
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.

Keep respiratory protective device available.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

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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:

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.
· 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.

13048-33-4 hexamethylene diacrylate

WEEL	Long-term value: 1 mg/m
	DSEN

110-19-0 isobutyl acetate

PEL	Long-term value: 700 mg/m , 150 ppm
REL	Long-term value: 700 mg/m , 150 ppm
TLV	Short-term value: 150 ppm
	Long-term value: 50 ppm

14808-60-7 Quartz (SiO₂)

PEL	Long-term value: 0.05* mg/m
	*resp. dust; 30mg/m ³ /%SiO ₂ +2
REL	Long-term value: 0.05* mg/m
	*respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m
	*respirable particulate matter, A2

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

WEEL	Long-term value: 50 ppm
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108-31-6 maleic anhydride

PEL	Long-term value: 1 mg/m , 0.25 ppm
REL	Long-term value: 1 mg/m , 0.25 ppm
TLV	Long-term value: 0.01* mg/m
	DSEN, RSEN; *inh. fraction + vapor, A4

· 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.

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Store protective clothing separately.
Avoid contact with the skin.
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

· **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:**

117.2 °C (243 °F)

· **Flash point:**

66 °C (150.8 °F)

· **Flammability (solid, gaseous):**

Not applicable.

· **Ignition temperature:**

235 °C (455 °F)

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· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Not determined.	
· Explosion limits:		
· Lower:	2.4 Vol %	
· Upper:	30 Vol %	
· Vapor pressure at 20 °C (68 °F):	20 hPa (15 mm Hg)	
· Density (+/- 0,03) at 20 °C (68 °F):	1.228 g/cm (10.248 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):	Not determined.	
· Viscosity:		
· Dynamic:	Not determined.	
· Kinematic at 20 °C (68 °F):	40 s (ISO 4 mm)	
· Oxidising properties:	N.A.	
· Solvent content:		
· VOC content:	2.54 % 31.1 g/l / 0.26 lb/gal	
· Solids content:	97.5 %	
· Other information (HAPS)		
1330-20-7	xylene	<0.1%
79-10-7	acrylic acid	<0.1%
108-31-6	maleic anhydride	≥0.001-<0.1%
100-41-4	ethylbenzene	<0.1%
108-88-3	toluene	<0.1%
123-31-9	1,4-dihydroxybenzene	<0.01%
· 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
- **Hazardous decomposition products:** No dangerous decomposition products known.

US

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11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral	LD50	48,400 mg/kg (mouse)
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55818-57-0 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

Oral	LD50	2,001 mg/kg (mouse)
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Dermal	LD50	2,001 mg/kg (rabbit)
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57472-68-1 oxybis(methyl-2,1-ethanediyl) diacrylate

Oral	LD50	3,530 mg/kg (mouse)
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Dermal	LD50	2,001 mg/kg (rabbit)
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13048-33-4 hexamethylene diacrylate

Oral	LD50	5,001 mg/kg (mouse)
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Dermal	LD50	3,601 mg/kg (rab)
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42978-66-5 (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

Oral	LD50	2,001 mg/kg (mouse)
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Dermal	LD50	2,001 mg/kg (rabbit)
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7473-98-5 2-hydroxy-2-methylpropiophenone

Oral	LD50	1,694 mg/kg (mouse)
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Dermal	LD50	6,929 mg/kg (mouse)
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110-19-0 isobutyl acetate

Oral	LD50	13,400 mg/kg (mouse)
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Dermal	LD50	17,401 mg/kg (rabbit)
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Inhalative	LC50/4 h	31 mg/l (mouse)
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64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	6,801 mg/kg (mouse)
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Dermal	LD50	3,401 mg/kg (rab)
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Inhalative	LC50/4 h	20.1 mg/l (mouse)
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108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	8,532 mg/kg (mouse)
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Dermal	LD50	5,001 mg/kg (rabbit)
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Inhalative	LC50/4 h	35.7 mg/l (mouse)
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108-31-6 maleic anhydride

Oral	LD50	1,090 mg/kg (mouse)
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Dermal	LD50	2,620 mg/kg (rabbit)
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· Primary irritant effect:

· on the skin: Irritant to skin and mucous membranes.

· on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

· Sensitization: Sensitization possible through skin contact.

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· **Additional toxicological information:**

Irritant

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

May cause cancer. Route of exposure: Inhalation.

· **Carcinogenic categories**

Quartz.

No significant exposure to quartz is thought to occur during the use of products in which quartz is bound to other materials, such as resin, and for quantities present in the formula

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 for Research on Cancer - Cl. 1 and 2)**

14808-60-7	Quartz (SiO ₂)	1
100-41-4	ethylbenzene	2B

· **NTP (National Toxicology Program)**

14808-60-7	Quartz (SiO ₂)	≥0.1-<0.5%
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· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.		
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12 Ecological information

· **Toxicity** Harmful to aquatic life with long lasting effects.

· **Aquatic toxicity:**

55818-57-0 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid		
EC50	105 mg/l (algae) (72h)	
	101 mg/l (daphnia) (48h)	
LC50 (96h)	101 mg/l (Fish)	
52408-84-1 Glycerol, propoxylated, esters with acrylic acid		
EC50	12.2 mg/l (algae) (72 h)	
	91.4 mg/l (daphnia) (48 h)	
LC50 (96h)	5.74 mg/l (Fish)	
57472-68-1 oxybis(methyl-2,1-ethanediyl) diacrylate		
EC50	16.7 mg/l (algae) (72 h)	
	22.3 mg/l (daphnia) (48 h)	
	2.2 mg/l (Fish) (96 h)	

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13048-33-4 hexamethylene diacrylate

EC50	1.5 mg/l (algae) (72 h)
LC50 48h	2.6 mg/l (daphnia)
LC50 (96h)	10 mg/l (Fish)

42978-66-5 (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

EC50	29 mg/l (algae) (72 h)
	88.7 mg/l (daphnia) (48h)
LC50 (96h)	10 mg/l (Fish)

7473-98-5 2-hydroxy-2-methylpropiophenone

EC50	119 mg/l (daphnia) (48h)
LC50 (96h)	160 mg/l (Fish)

110-19-0 isobutyl acetate

EC50	370 mg/l (algae) (72 h)
	25 mg/l (daphnia)
LC50 (96h)	17 mg/l (Fish)

64742-95-6 Solvent naphtha (petroleum), light arom.

EC50	1 mg/l (algae) (72 h)
	1 mg/l (daphnia) (48 h)
LC50 (96h)	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)

108-31-6 maleic anhydride

EC50	29 mg/l (algae) (72 h)
	42.8 mg/l (daphnia) (48 h)
LC50 (96h)	75 mg/l (Fish)

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

· **Substances Easily biodegradable**

52408-84-1	Glycerol, propoxylated, esters with acrylic acid	.
57472-68-1	oxybis(methyl-2,1-ethanediyl) diacrylate	.
13048-33-4	hexamethylene diacrylate	.
110-19-0	isobutyl acetate	.

· **Behavior in environmental systems:**

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

· **Ecotoxicological effects:**

· **Remark:** Harmful to fish

· **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.
 Must not reach bodies of water or drainage ditch undiluted or unneutralized.
 Danger to drinking water if even small quantities leak into the ground.
 Harmful to aquatic organisms

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- **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 Transport information

- **UN-Number**
 - DOT, ADN, IMDG, IATA Not applicable
 - Note Check viscosity and flash point at section 9
- **UN proper shipping name**
 - DOT, ADN, IMDG, IATA Not applicable
- **Transport hazard class(es)**
 - DOT, ADR, ADN, IMDG, IATA
 - Class Not applicable
- **Packing group**
 - DOT, IMDG, IATA Not applicable
- **Environmental hazards:**
 - Marine pollutant: No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** Not applicable

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):		
123-31-9	1,4-dihydroxybenzene	<0.01%

· Section 313 (Specific toxic chemical listings) :		
1330-20-7	xylene	<0.1%
79-10-7	acrylic acid	<0.1%

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108-31-6	maleic anhydride	≥0.001-<0.1%
110-82-7	cyclohexane	<0.025%
100-41-4	ethylbenzene	<0.1%
7664-38-2	phosphoric acid	<0.1%
108-88-3	toluene	<0.1%
123-31-9	1,4-dihydroxybenzene	<0.01%
1338-02-9	Naphthenic acids, copper salts	<0.01%
142-71-2	copper di(acetate)	<0.01%

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

1330-20-7	xylene
79-10-7	acrylic acid
108-31-6	maleic anhydride
100-41-4	ethylbenzene
108-88-3	toluene
123-31-9	1,4-dihydroxybenzene

· **Proposition 65**

· **Chemicals known to cause cancer:**

Quartz (SiO₂) only in bound form

14808-60-7	Quartz (SiO ₂)	*	≥0.1-<0.5%
100-41-4	ethylbenzene	*	<0.1%

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

108-88-3	toluene	<0.1%
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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

1330-20-7	xylene	I	<0.1%
110-82-7	cyclohexane	I	<0.025%
100-41-4	ethylbenzene	D	<0.1%
108-88-3	toluene	II	<0.1%

· **TLV (Threshold Limit Value)**

14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	A4
14808-60-7	Quartz (SiO ₂)	A2
1330-20-7	xylene	A4
79-10-7	acrylic acid	A4
108-31-6	maleic anhydride	A4
100-41-4	ethylbenzene	A3
108-88-3	toluene	A4
123-31-9	1,4-dihydroxybenzene	A3

(Contd. on page 13)

Product number TE72222**Trade name: UV solv-b. clear sealer**

(Contd. of page 12)

· <i>NIOSH-Ca (National Institute for Occupational Safety and Health)</i>		
14808-60-7	Quartz (SiO ₂)	≥0.1-<0.5%

· **National regulations:**

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

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

- **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 / 44

· **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

Flammable Liquids 2: Flammable liquids . Category 2

Flammable Liquids 3: Flammable liquids . Category 3

Flammable Liquids 4: Flammable liquids . Category 4

Acute Toxicity - Oral 4: Acute toxicity . Category 4

Skin Corrosion 1B: Skin corrosion/irritation . Category 1B

Skin Irritation 2: Skin corrosion/irritation . Category 2

Eye Damage 1: Serious eye damage/eye irritation . Category 1

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 1A: Carcinogenicity . Category 1A

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) . Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard . Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard . Category 2

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

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard . Category 1

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

IARC International agency for research on cancer

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