

## 1 Identification

- **Product identifier**

- *Product number* TYS1A02
- *Trade name:* **UV solv-b. clear primer**
- *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**

- |                         |   |
|-------------------------|---|
| 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.                 |
| Toxic to Reproduction 2 | H361 Suspected of damaging fertility or the unborn child. |
| Aquatic Acute 2         | H401 Toxic to aquatic life.                               |
| Aquatic Chronic 2       | H411 Toxic 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 GHS09

- *Signal word* Danger

- *Hazard-determining components of labeling:*

- oxybis(methyl-2, 1-ethanediyl) diacrylate
- hexamethylene diacrylate
- 2-phenoxyethyl acrylate
- 2-(2-ethoxyethoxy)ethyl acrylate
- 2-hydroxyethyl methacrylate
- phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

- *Hazard statements*

- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H317 May cause an allergic skin reaction.
- H361 Suspected of damaging fertility or the unborn child.
- H401 Toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

- *Precautionary statements*

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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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)



Health = 3  
 Fire = 1  
 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = \*3  
 Fire = 1  
 Reactivity = 0

### 3 Composition/information on ingredients

**Chemical characterization: Mixtures**· **Description:** Mixture: consisting of the following components.· **Dangerous components:**

	acrylate resin ⚠ Skin Irritation 2, H315; Eye Irritation 2A, H319	40-49.99%
13048-33-4	hexamethylene diacrylate ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410 ⚠ Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317	≥10-<20%
57472-68-1	oxybis(methyl-2,1-ethanediyl) diacrylate ⚠ Eye Damage 1, H318 ⚠ Skin Irritation 2, H315; Sensitization - Skin 1, H317	10-12.49%
7328-17-8	2-(2-ethoxyethoxy)ethyl acrylate ⚠ Acute Toxicity - Dermal 3, H311 ⚠ Aquatic Chronic 2, H411 ⚠ Acute Toxicity - Oral 4, H302; Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317 Aquatic Acute 2, H401	2.5-4.99%
64401-02-1	Poly(oxy-1,2-ethanediyl),a,a"-[(1-methylethylidene)di-4,1-phenylene] bis[w-[(1-oxo-2-propenyl)oxy]- ⚠ Aquatic Chronic 2, H411 Aquatic Acute 2, H401	2.5-4.99%
7473-98-5	2-hydroxy-2-methylpropiophenone ⚠ Acute Toxicity - Oral 4, H302 Aquatic Acute 3, H402; Aquatic Chronic 3, H412	2.5-<25%
48145-04-6	2-phenoxyethyl acrylate ⚠ Toxic to Reproduction 2, H361 ⚠ Aquatic Chronic 2, H411 ⚠ Sensitization - Skin 1A, H317 Aquatic Acute 2, H401	1-2.49%

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868-77-9	2-hydroxyethyl methacrylate ⚠ Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317	1-2.49%
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide ⚠ Sensitization - Skin 1A, H317 Aquatic Chronic 4, H413	≥0.1-<0.5%
108-83-8	2,6-dimethylheptan-4-one ⚠ Flammable Liquids 3, H226 ⚠ Specific Target Organ Toxicity - Single Exposure 3, H335	<0.5%
123-31-9	1,4-dihydroxybenzene ⚠ Germ Cell Mutagenicity 2, H341; Carcinogenicity 2, H351 ⚠ Eye Damage 1, H318 ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1) ⚠ Acute Toxicity - Oral 4, H302; Sensitization - Skin 1, H317	≥0.025-<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:

CO<sub>2</sub>, 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:

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Nitrogen oxides (NO<sub>x</sub>)

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**

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
868-77-9	2-hydroxyethyl methacrylate	1.9 mg/m
108-83-8	2,6-dimethylheptan-4-one	75 ppm

- **PAC-2:**

13048-33-4	hexamethylene diacrylate	170 mg/m
868-77-9	2-hydroxyethyl methacrylate	21 mg/m
108-83-8	2,6-dimethylheptan-4-one	330 ppm

- **PAC-3:**

13048-33-4	hexamethylene diacrylate	990 mg/m
868-77-9	2-hydroxyethyl methacrylate	1,000 mg/m
108-83-8	2,6-dimethylheptan-4-one	2000* 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.

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Keep respiratory protective device available.

· **Information about protection against explosions and fires:**

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

### 108-83-8 2,6-dimethylheptan-4-one

PEL	Long-term value: 290 mg/m , 50 ppm
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REL	Long-term value: 150 mg/m , 25 ppm
-----	------------------------------------

TLV	Long-term value: 25 ppm
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### 123-31-9 1,4-dihydroxybenzene

PEL	Long-term value: 2 mg/m
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REL	Ceiling limit value: 2* mg/m *15-min
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TLV	Long-term value: 1 mg/m DSEN, A3
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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 skin.

Avoid contact with the eyes and skin.

Pregnant women should strictly avoid inhalation or skin contact.

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- **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:**

150 °C (302 °F)

- **Flash point:**

97 °C (206.6 °F)

- **Flammability (solid, gaseous):**

Not applicable.

- **Ignition temperature:**

235 °C (455 °F)

- **Decomposition temperature:**

Not determined.

- **Auto igniting:**

Product is not selfigniting.

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· <b>Danger of explosion:</b>	Product does not present an explosion hazard.	
· <b>Explosion limits:</b>		
· <b>Lower:</b>	Not determined.	
· <b>Upper:</b>	Not determined.	
· <b>Vapor pressure at 25 °C (77 °F):</b>	0 hPa	
· <b>Density (+/- 0,03) at 20 °C (68 °F):</b>	1.053 g/cm (8.787 lbs/gal)	
· <b>Relative density</b>	Not determined.	
· <b>Vapor density</b>	Not determined.	
· <b>Evaporation rate</b>	Not determined.	
· <b>Solubility in / Miscibility with</b>		
· <b>Water:</b>	Not miscible or difficult to mix.	
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.	
· <b>Viscosity:</b>		
· <b>Dynamic:</b>	Not determined.	
· <b>Kinematic at 20 °C (68 °F):</b>	60 s (ISO 6 mm)	
· <b>Oxidising properties:</b>	N.A.	
· <b>Solvent content:</b>		
· <b>VOC content:</b>	0.25 % 2.6 g/l / 0.02 lb/gal	
· <b>Solids content:</b>	99.8 %	
· <b>Other information (HAPS)</b>		
123-31-9	1,4-dihydroxybenzene	≥0.025-<0.1%
79-10-7	acrylic acid	<0.1%
· <b>Other information</b>	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.

## 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:**

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>ATE (Acute Toxicity Estimate)</b>		
Oral	LD50	22,453 mg/kg (mouse)
Dermal	LD50	8,016 mg/kg

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<b>13048-33-4 hexamethylene diacrylate</b>		
Oral	LD50	5,001 mg/kg (mouse)
Dermal	LD50	3,601 mg/kg (rab)
<b>57472-68-1 oxybis(methyl-2,1-ethanediyl) diacrylate</b>		
Oral	LD50	3,530 mg/kg (mouse)
Dermal	LD50	2,001 mg/kg (rabbit)
<b>7328-17-8 2-(2-ethoxyethoxy)ethyl acrylate</b>		
Oral	LD50	1,860 mg/kg (mouse)
Dermal	LD50	400 mg/kg (mouse)
<b>7473-98-5 2-hydroxy-2-methylpropiophenone</b>		
Oral	LD50	1,694 mg/kg (mouse)
Dermal	LD50	6,929 mg/kg (mouse)
<b>48145-04-6 2-phenoxyethyl acrylate</b>		
Oral	LD50	5,000 mg/kg (mouse)
Dermal	LD50	2,540 mg/kg (rabbit)
<b>868-77-9 2-hydroxyethyl methacrylate</b>		
Oral	LD50	5,050 mg/kg (mouse)
<b>162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide</b>		
Oral	LD50	2,001 mg/kg (mouse)
Dermal	LD50	2,001 mg/kg (mouse)
<b>108-83-8 2,6-dimethylheptan-4-one</b>		
Oral	LD50	2,001 mg/kg (mouse)
Dermal	LD50	2,001 mg/kg (rabbit)
Inhalative	LC50/4 h	20.1 mg/l (mouse)
<b>123-31-9 1,4-dihydroxybenzene</b>		
Oral	LD50	376 mg/kg (mouse)
Dermal	LD50	2,001 mg/kg (mouse)

· **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.

· **Additional toxicological information:**

Irritant

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer - Cl. 1 and 2)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

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

· **Aquatic toxicity:**

### 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)

### 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)

### 7328-17-8 2-(2-ethoxyethoxy)ethyl acrylate

EC50	3.3 mg/l (algae) (72 h)
	90 mg/l (daphnia) (48 h)
LC50 (96h)	2.6 mg/l (Fish)

### 64401-02-1 Poly(oxy-1,2-ethanediyl),a,a"-[(1-methylethylidene)di-4,1-phenylene]bis[w-[(1-oxo-2-propenyl)oxy]-

EC50	101 mg/l (algae)
	72 h
	6 mg/l (daphnia)
	48 h

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

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

### 48145-04-6 2-phenoxyethyl acrylate

EC50	4.4 mg/l (algae) (72 h)
LC50 48h	1.21 mg/l (daphnia)
LC50 (96h)	10 mg/l (Fish)

### 868-77-9 2-hydroxyethyl methacrylate

LC50 (96h)	240 mg/l (Fish)
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### 162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

EC50	1,175 mg/l (daphnia)
	48h

### 108-83-8 2,6-dimethylheptan-4-one

EC50	101 mg/l (algae) (48 h)
	101 mg/l (daphnia) (48 h)

### 123-31-9 1,4-dihydroxybenzene

EC50	0.33 mg/l (algae) (72 h)
	0.13 mg/l (daphnia) (48 h)
LC50 (96h)	0.09 mg/l (Fish)

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

· <b>Substances Easily biodegradable</b>	
13048-33-4	hexamethylene diacrylate .
57472-68-1	oxybis(methyl-2,1-ethanediyl) diacrylate .
7328-17-8	2-(2-ethoxyethoxy)ethyl acrylate .

· **Behavior in environmental systems:**

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

· **Ecotoxicological effects:**

- **Remark:** Toxic for 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.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms

· **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, IMDG, IATA** UN3082
- **Note** Check viscosity and flash point at section 9

· **UN proper shipping name**

- **DOT** Environmentally hazardous substance, liquid, n.o.s. (2-(2-ethoxyethoxy)ethyl acrylate)
- **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hexamethylene diacrylate, 2-(2-ethoxyethoxy)ethyl acrylate, Poly(oxy-1,2-ethanediyl), a, a''-[(1-methylethylidene)di-4,1-phenylene]bis[w-[(1-oxo-2-propenyl)oxy]-, 2-phenoxyethyl acrylate), MARINE POLLUTANT
- **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hexamethylene diacrylate, 2-(2-ethoxyethoxy)ethyl acrylate)

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**· Transport hazard class(es)**

· DOT, IMDG, IATA



· Class	9 Miscellaneous dangerous substances and articles
· Label	9
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· Label	9

**· Packing group**

· DOT, IMDG, IATA III

**· Environmental hazards:**

Product contains environmentally hazardous substances:

· Marine pollutant:	Yes
· Special marking (IATA):	Symbol (fish and tree)

**· Special precautions for user**

Warning: Miscellaneous dangerous substances and articles

· Hazard identification number (Kemler code):	90
· EMS Number:	F-A, S-F
· Stowage Category	A

**· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**· Transport/Additional information:**

· DOT	
· Remarks:	Special marking with the symbol (fish and tree).

· IMDG

· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml

**· UN "Model Regulation":**

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXAMETHYLENE DIACRYLATE, 2-(2-ETHOXYETHOXY)ETHYL ACRYLATE), 9, III

**15 Regulatory information**

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

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- Various regulations
- SARA

## · Section 355 (extremely hazardous substances):

123-31-9	1,4-dihydroxybenzene	≥0.025-<0.1%
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## · Section 313 (Specific toxic chemical listings) :

123-31-9	1,4-dihydroxybenzene	≥0.025-<0.1%
110-82-7	cyclohexane	≥0.025-<0.1%
79-10-7	acrylic acid	<0.1%

## · TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

## · Hazardous Air Pollutants

123-31-9	1,4-dihydroxybenzene
79-10-7	acrylic acid

## · Proposition 65

## · Chemicals known to cause cancer:

None of the ingredients is listed.

## · 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:

None of the ingredients is listed.

## · Carcinogenic categories

## · EPA (Environmental Protection Agency)

110-82-7	cyclohexane	I	≥0.025-<0.1%
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## · TLV (Threshold Limit Value)

123-31-9	1,4-dihydroxybenzene	A3
79-10-7	acrylic acid	A4

## · NIOSH-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.

## · Other regulations, limitations and prohibitive regulations

The material is subject to SNUR (Significant New Use Rule) under Title 40 CFR Paragraph 721.11012

## · Export notification paragraph 12 (b) of the US Toxic Substance Control Act 15 U.S.C.

This product contains a chemical substance subject to the export notification pursuant to paragraph 12 (b) of the US Toxic Substance Control Act 15 U.S.C.: PMN P15-0188/EPA Accession 272152, section 5(e)

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

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## 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 / 8
- **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 3: Flammable liquids . Category 3
  - Acute Toxicity - Oral 4: Acute toxicity . Category 4
  - Acute Toxicity - Dermal 3: Acute toxicity . Category 3
  - 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 - Skin 1: Skin sensitisation . Category 1
  - Sensitization - Skin 1A: Skin sensitisation . Category 1A
  - Germ Cell Mutagenicity 2: Germ cell mutagenicity . Category 2
  - 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
  - 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
  - Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard . Category 4
- **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.**