

1 Identification

- **Product identifier**

- *Product number* TES5A02
- *Trade name:* **UV SEALER FOR EXOTIC WOOD**
- *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
1.3.2 Importer

Name I.C.& S. DISTRIBUTING CO.
 Address P.O.BOX 10845
 LANCASTER. PA
 USA
 E-Mail: nelson@ics-company.com

- *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.
 001 813-248-0585

2 Hazard(s) identification

- **Classification of the substance or mixture**

Flammable Liquids 2	H225 Highly flammable liquid and vapor.
Skin Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
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 3	H336 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.
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*



GHS02 GHS07 GHS08

- *Signal word* Danger

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

toluene
Trimethylolpropane, ethoxylated, esters with acrylic acid
butanone
ethyl acetate
hexamethylene diacrylate
2-phenoxyethyl acrylate
2-hydroxyethyl methacrylate

· **Hazard statements**

H225 Highly flammable liquid and vapor.
H315 Causes skin irritation.
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.
H401 Toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

· **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)**



· **HMIS-ratings (scale 0 - 4)**



3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture: consisting of the following components.

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· Dangerous components:		
78-93-3	butanone ⚠ Flammable Liquids 2, H225 ⚠ Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	15-19.99%
141-78-6	ethyl acetate ⚠ Flammable Liquids 2, H225 ⚠ Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	15-19.99%
110-19-0	isobutyl acetate ⚠ Flammable Liquids 2, H225 ⚠ Specific Target Organ Toxicity - Single Exposure 3, H336	10-12.49%
28961-43-5	Trimethylolpropane, ethoxylated, esters with acrylic acid ⚠ Eye Irritation 2A, H319; Sensitization - Skin 1B, H317 Aquatic Chronic 3, H412	5-9.99%
	acrylate resin ⚠ Skin Irritation 2, H315; Eye Irritation 2A, H319	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	5-9.99%
7473-98-5	2-hydroxy-2-methylpropiophenone ⚠ Acute Toxicity - Oral 4, H302 Aquatic Acute 3, H402; Aquatic Chronic 3, H412	2.5-<25%
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	≥1-<2.5%
84434-11-7	PHENYL ETHYL PHOSPHATE ⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411 ⚠ Sensitization - Skin 1B, H317	≥0.5-<1%
1843-05-6	Octabenzone ⚠ Sensitization - Skin 1B, H317	≥0.1-<0.5%
48145-04-6	2-phenoxyethyl acrylate ⚠ Toxic to Reproduction 2, H361 ⚠ Aquatic Chronic 2, H411 ⚠ Sensitization - Skin 1A, H317 Aquatic Acute 2, H401	≥0.1-<0.25%
868-77-9	2-hydroxyethyl methacrylate ⚠ Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317	≥0.1-<0.5%
1330-20-7	xylene ⚠ Flammable Liquids 3, H226 ⚠ Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304 ⚠ Acute Toxicity - Dermal 4, H312; Acute Toxicity - Inhalation 4, H332; Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335 Aquatic Acute 3, H402; Aquatic Chronic 3, H412	<0.5%

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123-31-9	1,4-dihydroxybenzene	(Contd. of page 3) <0.025%
	<ul style="list-style-type: none">  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 	

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:

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 (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**

Mount respiratory protective device.

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).

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	butanone	200 ppm
141-78-6	ethyl acetate	1,200 ppm
110-19-0	isobutyl acetate	450 ppm
108-88-3	toluene	67 ppm
13048-33-4	hexamethylene diacrylate	3 mg/m
868-77-9	2-hydroxyethyl methacrylate	1.9 mg/m
1330-20-7	xylene	130 ppm

· PAC-2:		
78-93-3	butanone	2700* ppm
141-78-6	ethyl acetate	1,700 ppm
110-19-0	isobutyl acetate	1300* ppm
108-88-3	toluene	560 ppm
13048-33-4	hexamethylene diacrylate	170 mg/m
868-77-9	2-hydroxyethyl methacrylate	21 mg/m
1330-20-7	xylene	920* ppm

· PAC-3:		
78-93-3	butanone	4000* ppm
141-78-6	ethyl acetate	10000** ppm
110-19-0	isobutyl acetate	7500** ppm
108-88-3	toluene	3700* ppm
13048-33-4	hexamethylene diacrylate	990 mg/m
868-77-9	2-hydroxyethyl methacrylate	1,000 mg/m

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1330-20-7 xylene

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2500* ppm

7 Handling and storage

· Handling:

· Precautions for safe handling

- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- Prevent formation of aerosols.
- Protect against electrostatic charges.
- Keep respiratory protective device available.
- Use explosion-proof apparatus / fittings and spark-proof tools.

· Information about protection against explosions and fires:

- Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
- Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

- Store in a cool, well-ventilated area, away from heat and sources of ignition
- Provide solvent resistant, sealed floor.
- Observe the label precautions, the expiration date for the use, if not indicated, is from delivery date of goods.
- In cases where there is no reported expiration date, it means that the product must be used within 8 months.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions:

- Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.

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

8 Exposure controls/personal protection

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

· Control parameters

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

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

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

78-93-3 butanone

PEL	Long-term value: 590 mg/m , 200 ppm
REL	Short-term value: 885 mg/m , 300 ppm Long-term value: 590 mg/m , 200 ppm
TLV	Short-term value: 300 ppm Long-term value: 200 ppm BEI

141-78-6 ethyl acetate

PEL	Long-term value: 1400 mg/m , 400 ppm
REL	Long-term value: 1400 mg/m , 400 ppm
TLV	Long-term value: 400 ppm

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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

108-88-3 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/m , 150 ppm
 Long-term value: 375 mg/m , 100 ppm
 TLV Long-term value: 20 ppm
 BEI, OTO, A4

13048-33-4 hexamethylene diacrylate

WEEL Long-term value: 1 mg/m
 DSEN

1330-20-7 xylene

PEL Long-term value: 435 mg/m , 100 ppm
 REL Short-term value: 655 mg/m , 150 ppm
 Long-term value: 435 mg/m , 100 ppm
 TLV Short-term value: (150) ppm
 Long-term value: (100) NIC-20 ppm
 BEI, A4

123-31-9 1,4-dihydroxybenzene

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

· 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)

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1330-20-7 xylene

BEI 1.5 g/g creatinine
Medium: urine
Time: end of shift
Parameter: Methylhippuric acids

· **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

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Safety Data Sheet

acc. to OSHA HCS

Printing date 09/07/2022

Version number 12

Reviewed on 09/07/2022

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· 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):	Not applicable.	
· Ignition temperature:	235 °C (455 °F)	
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.	
· Explosion limits:		
· Lower:	1.2 Vol %	
· Upper:	30 Vol %	
· Vapor pressure at 20 °C (68 °F):	105 hPa (78.8 mm Hg)	
· Density (+/- 0,03) at 20 °C (68 °F):	0.95 g/cm (7.928 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:	52.32 % 497.0 g/l / 4.15 lb/gal	
· Solids content:	47.7 %	
· Other information (HAPS)		
108-88-3	toluene	5-9.99%
1330-20-7	xylene	<0.5%
100-41-4	ethylbenzene	<0.1%
123-31-9	1,4-dihydroxybenzene	<0.025%
79-10-7	acrylic acid	<0.01%
· Other information	No further relevant information available.	

10 Stability and reactivity

· **Reactivity** typical of the product as indicated in the data sheet

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- **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:**
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)

Oral	LD50	48,400 mg/kg
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78-93-3 butanone

Oral	LD50	2,001 mg/kg (mouse)
Dermal	LD50	5,001 mg/kg (rabbit)
Inhalative	LC50/4 h	21 mg/l (mouse)

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 isobutyl acetate

Oral	LD50	13,400 mg/kg (mouse)
Dermal	LD50	17,401 mg/kg (rabbit)
Inhalative	LC50/4 h	31 mg/l (mouse)

28961-43-5 Trimethylolpropane, ethoxylated, esters with acrylic acid

Oral	LD50	2,001 mg/kg (mouse)
Dermal	LD50	13,201 mg/kg (rabbit)

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)

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

Oral	LD50	1,694 mg/kg (mouse)
Dermal	LD50	6,929 mg/kg (mouse)

13048-33-4 hexamethylene diacrylate

Oral	LD50	5,001 mg/kg (mouse)
Dermal	LD50	3,601 mg/kg (rab)

1843-05-6 Octabenzene

Oral	LD50	5,001 mg/kg (mouse)
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Dermal	LD50	5,001 mg/kg (rabbit)
48145-04-6 2-phenoxyethyl acrylate		
Oral	LD50	5,000 mg/kg (mouse)
Dermal	LD50	2,540 mg/kg (rabbit)
868-77-9 2-hydroxyethyl methacrylate		
Oral	LD50	5,050 mg/kg (mouse)
1330-20-7 xylene		
Oral	LD50.	3,523 mg/kg (mouse)
Dermal	LD50	1,100 mg/kg (rabbit) (ATE value)
	LD50.	12,126 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (mouse) (ATE value)
	LC50/4h.	27.571 mg/l (mouse)
123-31-9 1,4-dihydroxybenzene		
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:** Irritating effect.

· **Sensitization:** Sensitization possible through skin contact.

· **Additional toxicological information:**

Irritant

Causes skin irritation.

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.

· **Carcinogenic categories**

Ethylbenzene

From IARC MONOGRAPHS VOLUME 77/2000

Human carcinogenicity data

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

Evaluation

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

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

100-41-4	ethylbenzene	2B
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate	2B

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

· **Aquatic toxicity:**

78-93-3 butanone

EC50	2,029 mg/l (algae) (96 h)
	308 mg/l (daphnia) (48 h)
LC50 (96h)	2,993 mg/l (Fish)

141-78-6 ethyl acetate

EC50	165 mg/l (daphnia) (48 h)
LC50 (96h)	230 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)

28961-43-5 Trimethylolpropane, ethoxylated, esters with acrylic acid

EC50	70.7 mg/l (daphnia)
	48H
LC50 (96h)	1.95 mg/l (Fish)

108-88-3 toluene

EC50	134 mg/l (algae) (96 h)
	3.78 mg/l (daphnia) (48 h)
LC50 (96h)	5.5 mg/l (Fish)

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

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

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)

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

1843-05-6 Octabenzone

EC50	101 mg/l (algae) (72 h)
	52 mg/l (daphnia) (24h)
LC50 (96h)	101 mg/l (Fish)

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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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1330-20-7 xylene

EC50	2.2 mg/l (algae)
LC50 48h	1 mg/l (daphnia)
LC50 (96h)	2.6 mg/l (Fish)

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)

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

- **Substances Easily biodegradable**

78-93-3	butanone	.
141-78-6	ethyl acetate	.
110-19-0	isobutyl acetate	.
108-88-3	toluene	.
13048-33-4	hexamethylene diacrylate	.

- **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 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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

Harmful to 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.



US

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14 Transport information

<ul style="list-style-type: none"> · UN-Number · DOT, IMDG, IATA · Note 	UN1263 Check viscosity and flash point at section 9
<ul style="list-style-type: none"> · UN proper shipping name · DOT · IMDG, IATA 	Paint PAINT
<ul style="list-style-type: none"> · Transport hazard class(es) · DOT 	 <ul style="list-style-type: none"> · Class · Label · Class · Label
<ul style="list-style-type: none"> · IMDG, IATA 	 <ul style="list-style-type: none"> · Class · Label
<ul style="list-style-type: none"> · Packing group · DOT, IMDG, IATA 	II
<ul style="list-style-type: none"> · Environmental hazards: · Marine pollutant: 	No
<ul style="list-style-type: none"> · Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category 	Warning: Flammable liquids 33 F-E, S-E B
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> · Transport/Additional information: · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<ul style="list-style-type: none"> · UN "Model Regulation": 	UN 1263 PAINT, 3, II

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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	<0.025%
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· **Section 313 (Specific toxic chemical listings) :**

108-88-3	toluene	5-9.99%
1330-20-7	xylene	<0.5%
100-41-4	ethylbenzene	<0.1%
110-82-7	cyclohexane	<0.025%
123-31-9	1,4-dihydroxybenzene	<0.025%
79-10-7	acrylic acid	<0.01%

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

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

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

· **Proposition 65**

· **Chemicals known to cause cancer:**

100-41-4	ethylbenzene	*	<0.1%
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate	*	<0.025%

· **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	5-9.99%
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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

78-93-3	butanone	I	15-19.99%
108-88-3	toluene	II	5-9.99%
1330-20-7	xylene	I	<0.5%
100-41-4	ethylbenzene	D	<0.1%
110-82-7	cyclohexane	I	<0.025%

· **TLV (Threshold Limit Value)**

108-88-3	toluene	A4
1330-20-7	xylene	A4

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100-41-4	ethylbenzene	A3
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.

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 / 11

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flammable Liquids 2: Flammable liquids . Category 2

Flammable Liquids 3: Flammable liquids . Category 3

Acute Toxicity - Oral 4: Acute toxicity . Category 4

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

Sensitization - Skin 1B: Skin sensitisation . Category 1B

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

Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) . Category 2

Aspiration Hazard 1: Aspiration hazard . Category 1

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

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*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.

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