

1 Identification

- **Product identifier**
 - Product number TO9754
 - Trade name: **CLEAR PU TOP-COAT 25SH**
 - Application of the substance / the mixture For professional use
- **Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
IVM Chemicals Srl
Viale della Stazione 3 -27020 Parona (PV)Italy -Tel +39 038425441
 - **Information department:**
Environmental Health and safety office
hseoffice@ivmchemicals.com
 - **Emergency telephone number:**
ChemTel Expert Assistance Hotline/SDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

2 Hazard(s) identification

- **Classification of the substance or mixture**

Flammable Liquids 2	H225	Highly flammable liquid and vapor.
Skin Irritation 2	H315	Causes skin irritation.
Eye Damage 1	H318	Causes serious eye damage.
Carcinogenicity 2	H351	Suspected of causing cancer.
Toxic to Reproduction 2	H361	Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity - Single Exposure 3H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.		
Specific Target Organ Toxicity - Repeated Exposure 2	H373	May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Oral and Inhalation.
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**



- **Signal word** Danger
- **Hazard-determining components of labeling:**
xylene
2-methylpropan-1-ol
ethylbenzene
toluene
- **Hazard statements**
H225 Highly flammable liquid and vapor.
H315 Causes skin irritation.

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- H318 Causes serious eye damage.
- H351 Suspected of causing cancer.
- H361 Suspected of damaging fertility or the unborn child.
- H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
- H373 May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Oral and Inhalation.
- H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
 - P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 - 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.
 - 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:**

1330-20-7	xylene <ul style="list-style-type: none"> ☞ 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 	20-24.99%
141-78-6	ethyl acetate <ul style="list-style-type: none"> ☞ Flammable Liquids 2, H225 ☞ Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336 	12.5-15%
108-65-6	2-methoxy-1-methylethyl acetate <ul style="list-style-type: none"> ☞ Flammable Liquids 3, H226 ☞ Specific Target Organ Toxicity - Single Exposure 3, H336 	5-9.99%

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110-19-0	isobutyl acetate ⚠ Flammable Liquids 2, H225 ⚠ Specific Target Organ Toxicity - Single Exposure 3, H336	5-9.99%
100-41-4	ethylbenzene ⚠ Flammable Liquids 2, H225 ⚠ Carcinogenicity 2, H351; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304 ⚠ Acute Toxicity - Inhalation 4, H332 Aquatic Chronic 3, H412	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%
78-93-3	butanone ⚠ Flammable Liquids 2, H225 ⚠ Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	1-2.49%
78-83-1	2-methylpropan-1-ol ⚠ Flammable Liquids 3, H226 ⚠ Eye Damage 1, H318 ⚠ Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H335-H336	1-2.49%
71-36-3	butan-1-ol ⚠ Flammable Liquids 3, H226 ⚠ Eye Damage 1, H318 ⚠ Acute Toxicity - Oral 4, H302; Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H335-H336	1-2.49%
67-63-0	propan-2-ol ⚠ Flammable Liquids 2, H225 ⚠ Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	0.5-1%

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:

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.

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- **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**
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.
 - **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).
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.

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· Protective Action Criteria for Chemicals

· PAC-1:		
1330-20-7	xylene	130 ppm
141-78-6	ethyl acetate	1,200 ppm
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
110-19-0	isobutyl acetate	450 ppm
100-41-4	ethylbenzene	33 ppm
108-88-3	toluene	67 ppm
78-93-3	butanone	200 ppm
78-83-1	2-methylpropan-1-ol	150 ppm
71-36-3	butan-1-ol	60 ppm
9002-88-4	Polyethylene low density	16 mg/m
9002-84-0	Polytetrafluoroethylene	12 mg/m
67-63-0	propan-2-ol	400 ppm
· PAC-2:		
1330-20-7	xylene	920* ppm
141-78-6	ethyl acetate	1,700 ppm
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
110-19-0	isobutyl acetate	1300* ppm
100-41-4	ethylbenzene	1100* ppm
108-88-3	toluene	560 ppm
78-93-3	butanone	2700* ppm
78-83-1	2-methylpropan-1-ol	1,300 ppm
71-36-3	butan-1-ol	800 ppm
9002-88-4	Polyethylene low density	170 mg/m
9002-84-0	Polytetrafluoroethylene	130 mg/m
67-63-0	propan-2-ol	2000* ppm
· PAC-3:		
1330-20-7	xylene	2500* ppm
141-78-6	ethyl acetate	10000** ppm
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
110-19-0	isobutyl acetate	7500** ppm
100-41-4	ethylbenzene	1800* ppm
108-88-3	toluene	3700* ppm
78-93-3	butanone	4000* ppm
78-83-1	2-methylpropan-1-ol	8000* ppm
71-36-3	butan-1-ol	8000** ppm
9002-88-4	Polyethylene low density	1,000 mg/m
9002-84-0	Polytetrafluoroethylene	790 mg/m
67-63-0	propan-2-ol	12000** ppm

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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:

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

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

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

WEEL Long-term value: 50 ppm

110-19-0 isobutyl acetate

PEL Long-term value: 700 mg/m , 150 ppm

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REL Long-term value: 700 mg/m , 150 ppm

TLV Short-term value: 150 ppm

Long-term value: 50 ppm

100-41-4 ethylbenzene

PEL Long-term value: 435 mg/m , 100 ppm

REL Short-term value: 545 mg/m , 125 ppm

Long-term value: 435 mg/m , 100 ppm

TLV Long-term value: 20 NIC-20 ppm

BEI, A3, NIC: OTO, BEI, A3

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

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

78-83-1 2-methylpropan-1-ol

PEL Long-term value: 300 mg/m , 100 ppm

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

TLV Long-term value: 50 ppm

71-36-3 butan-1-ol

PEL Long-term value: 300 mg/m , 100 ppm

REL Ceiling limit value: 150 mg/m , 50 ppm

Skin

TLV Long-term value: 20 ppm

67-63-0 propan-2-ol

PEL Long-term value: 980 mg/m , 400 ppm

REL Short-term value: 1225 mg/m , 500 ppm

Long-term value: 980 mg/m , 400 ppm

TLV Short-term value: 400 ppm

Long-term value: 200 ppm

BEI, A4

· Ingredients with biological limit values:**1330-20-7 xylene**

BEI 1.5 g/g creatinine

Medium: urine

Time: end of shift

Parameter: Methylhippuric acids

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100-41-4 ethylbenzene

BEI 0.15 g/g creatinine
 Medium: urine
 Time: end of shift at end of workweek
 Parameter: Sum of mandelic acid and phenylglyoxylic acid (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)

78-93-3 butanone

BEI 2 mg/L
 Medium: urine
 Time: end of shift
 Parameter: Methyl ethyl ketone (nonspecific)

67-63-0 propan-2-ol

BEI 40 mg/L
 Medium: urine
 Time: end of shift at end of workweek
 Parameter: Acetone (background, nonspecific)

· *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.

· **Breathing equipment:**

Short term filter device:



Suitable respiratory protective device recommended.

Filter A

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 · **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:**

77 °C (170.6 °F)

 · **Flash point:**

-4 °C (24.8 °F)

 · **Flammability (solid, gaseous):**

Not applicable.

 · **Ignition temperature:**

390 °C (734 °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 Vol %

 · **Upper:**

12 Vol %

 · **Vapor pressure at 20 °C (68 °F):**

105 hPa (78.8 mm Hg)

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- **Density (+/- 0,03) at 20 °C (68 °F):** 0.971 g/cm (8.103 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):** 25 s (ISO 6 mm)
- **Oxidising properties:** N.A.

- **Solvent content:**
- **Water:** 0.1 %
- **VOC content:** 64.73 %
628.5 g/l / 5.25 lb/gal

- **Solids content:** 35.2 %

- **Other information (HAPS)**

1330-20-7	xylene	20-24.99%
100-41-4	ethylbenzene	5-9.99%
108-88-3	toluene	2.5-4.99%

- **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**
Reacts with oxidizing agents.
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	56,429 mg/kg
Dermal	LD50	5,127 mg/kg (rabbit)
Inhalative	LC50/4 h	44.6 mg/l (mouse)

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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)

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)

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 h	35.7 mg/l (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)

100-41-4 ethylbenzene

Oral	LD50	3,500 mg/kg (mouse)
Dermal	LD50	15,486 mg/kg (rabbit)
Inhalative	LC50/4 h	17.2 mg/l (mouse)

108-88-3 toluene

Oral	LD50	5,000 mg/kg (mouse)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	25.7 mg/l (mouse)

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)

78-83-1 2-methylpropan-1-ol

Oral	LD50	2,460 mg/kg (mouse)
Dermal	LD50	3,400 mg/kg (rabbit)
Inhalative	LC50/4h.	19.2 mg/l (mouse)

71-36-3 butan-1-ol

Oral	LD50	790 mg/kg (mouse)
Dermal	LD50	3,400 mg/kg (rabbit)
Inhalative	LC50/4 h	8,000 mg/l (mouse)

67-63-0 propan-2-ol

Oral	LD50	4,710 mg/kg (mouse)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50/4 h	72.6 mg/l (mouse)

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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:** No sensitizing effects known.
 - **Additional toxicological information:**
 - Irritant
 - Causes skin irritation.
 - Causes serious eye damage.
 - Suspected of causing cancer.
 - Suspected of damaging fertility or the unborn child.
 - May cause respiratory irritation.
 - May cause drowsiness or dizziness.
 - May cause damage to the central nervous system 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
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 · **NTP (National Toxicology Program)**

None of the ingredients is listed.

 · **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:**
1330-20-7 xylene

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

141-78-6 ethyl acetate

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

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

EC50	1,001 mg/l (algae) (72 h)
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LC50 (96h)	501 mg/l (daphnia) (48 h) 134 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)
100-41-4 ethylbenzene	
EC50	438 mg/l (algae) (72h) 1.8 mg/l (daphnia) (48 h)
LC50 (96h)	12.1 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)
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)
78-83-1 2-methylpropan-1-ol	
EC50	1,799 mg/l (algae) (72 h) 1,100 mg/l (daphnia) (48 h)
LC50 (96h)	1,430 mg/l (Fish)
67-63-0 propan-2-ol	
EC50	1,001 mg/l (algae) (72 h) 10,000 mg/l (daphnia) (24 h)
LC50 (96h)	9,640 mg/l (Fish)

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

· **Substances Easily biodegradable**

1330-20-7	xylene	.
141-78-6	ethyl acetate	.
108-65-6	2-methoxy-1-methylethyl acetate	.
110-19-0	isobutyl acetate	.
100-41-4	ethylbenzene	.
108-88-3	toluene	.
78-93-3	butanone	.
78-83-1	2-methylpropan-1-ol	.
67-63-0	propan-2-ol	.

· **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.

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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

- **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

UN1263

- Note

Check viscosity and flash point at section 9

- **UN proper shipping name**

- DOT

Paint

- IMDG, IATA

PAINT

- **Transport hazard class(es)**

- DOT



- Class

3 Flammable liquids

- Label

3

- Class

3 Flammable liquids

- Label

3

- IMDG, IATA



- Class

3 Flammable liquids

- Label

3

- **Packing group**

- DOT, IMDG, IATA

II

- **Environmental hazards:**

- Marine pollutant:

No

- **Special precautions for user**

Warning: Flammable liquids

- Hazard identification number (Kemler code): 33

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· EMS Number:	F-E, S-E
· Stowage Category	B
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	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

· SARA

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings) :**

1330-20-7	xylene	20-24.99%
100-41-4	ethylbenzene	5-9.99%
108-88-3	toluene	2.5-4.99%
71-36-3	butan-1-ol	1-2.49%
67-63-0	propan-2-ol	0.5-1%
110-82-7	cyclohexane	<0.01%

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

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

1330-20-7	xylene
100-41-4	ethylbenzene
108-88-3	toluene

· **Proposition 65**· **Chemicals known to cause cancer:**

100-41-4	ethylbenzene	*	5-9.99%
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· **Chemicals known to cause reproductive toxicity for females:**

70657-70-4	2-methoxypropyl acetate	<0.1%
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· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

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

108-88-3	toluene		2.5-4.99%
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 · **Carcinogenic categories**

 · **EPA (Environmental Protection Agency)**

1330-20-7	xylene	I	20-24.99%
100-41-4	ethylbenzene	D	5-9.99%
108-88-3	toluene	II	2.5-4.99%
78-93-3	butanone	I	1-2.49%
71-36-3	butan-1-ol	D	1-2.49%
110-82-7	cyclohexane	I	<0.01%

 · **TLV (Threshold Limit Value)**

1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3
108-88-3	toluene	A4
67-63-0	propan-2-ol	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.

- **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 / 131
 - **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 - Dermal 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
 - Carcinogenicity 2: Carcinogenicity . Category 2

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