

1 Identification

- **Product identifier**
 - *Product number* TS1176
 - *Trade name:* **UR CLEAR PRECAT SELF-S 8SH**
 - *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**

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

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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.

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)**

Health = 3

Fire = 3

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *3

Fire = 3













Reactivity = 0

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture: consisting of the following components.

Dangerous components:

110-19-0	isobutyl acetate  Flammable Liquids 2, H225  Specific Target Organ Toxicity - Single Exposure 3, H336	20-24.99%
141-78-6	ethyl acetate  Flammable Liquids 2, H225  Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	15-19.99%
123-86-4	n-butyl acetate  Flammable Liquids 3, H226  Specific Target Organ Toxicity - Single Exposure 3, H336	15-19.99%
67-63-0	propan-2-ol  Flammable Liquids 2, H225  Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	5-9.99%
108-88-3	toluene  Flammable Liquids 2, H225  Toxic to Reproduction 2, H361; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304  Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H336  Aquatic Chronic 3, H412	2.5-4.99%

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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	≥2.5-<3%
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	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%
67-64-1	acetone ⚠ Flammable Liquids 2, H225 👁 Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	1-2.49%
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	0.5-1%
95-47-6	o-xylene ⚠ Flammable Liquids 3, H226 ⚠ 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	<0.5%
50-00-0	formaldehyde ⚠ Acute Toxicity - Oral 3, H301; Acute Toxicity - Dermal 3, H311; Acute Toxicity - Inhalation 3, H331 ⚠ Germ Cell Mutagenicity 2, H341; Carcinogenicity 1B, H350 👁 Skin Corrosion 1B, H314 ⚠ Sensitization - Skin 1A, H317 ⚠ Flammable Liquids 4, H227	<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:**

In case of unconsciousness place patient stably in side position for transportation.

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- **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**
For symptoms and effects caused by substances, refer to Section 11.
 - **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
 - **Suitable extinguishing agents:**
Alcohol resistant foam
Alcohol resistant foam, CO, powder, water spray/mist.
 - **For safety reasons unsuitable extinguishing agents:**
Do not use a jet water stream as it may scatter and spread fire.
- **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
In case of fire, the following can be released:
Nitrogen oxides (NOx)
Carbon monoxide (CO)
- **Advice for firefighters**
Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health and also, in the case of closed containers exposed to flames to prevent explosions.
 - **Protective equipment:**
Hardhat with visor, fireproof clothing, suitable gloves and if necessary respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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:		
110-19-0	isobutyl acetate	450 ppm
141-78-6	ethyl acetate	1,200 ppm
123-86-4	n-butyl acetate	5 ppm
67-63-0	propan-2-ol	400 ppm
108-88-3	toluene	67 ppm
78-83-1	2-methylpropan-1-ol	150 ppm
1330-20-7	xylene	130 ppm
7631-86-9	silicon dioxide, chemically prepared	18 mg/m
71-36-3	butan-1-ol	60 ppm
67-64-1	acetone	200 ppm
9002-88-4	Polyethylene low density	16 mg/m
100-41-4	ethylbenzene	33 ppm

· PAC-2:		
110-19-0	isobutyl acetate	1300* ppm
141-78-6	ethyl acetate	1,700 ppm
123-86-4	n-butyl acetate	200 ppm
67-63-0	propan-2-ol	2000* ppm
108-88-3	toluene	560 ppm
78-83-1	2-methylpropan-1-ol	1,300 ppm
1330-20-7	xylene	920* ppm
7631-86-9	silicon dioxide, chemically prepared	740 mg/m
71-36-3	butan-1-ol	800 ppm
67-64-1	acetone	3200* ppm
9002-88-4	Polyethylene low density	170 mg/m
100-41-4	ethylbenzene	1100* ppm

· PAC-3:		
110-19-0	isobutyl acetate	7500** ppm
141-78-6	ethyl acetate	10000** ppm
123-86-4	n-butyl acetate	3000* ppm
67-63-0	propan-2-ol	12000** ppm
108-88-3	toluene	3700* ppm
78-83-1	2-methylpropan-1-ol	8000* ppm
1330-20-7	xylene	2500* ppm
7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m
71-36-3	butan-1-ol	8000** ppm
67-64-1	acetone	5700* ppm
9002-88-4	Polyethylene low density	1,000 mg/m
100-41-4	ethylbenzene	1800* 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:

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

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

123-86-4 n-butyl acetate

PEL	Long-term value: 710 mg/m , 150 ppm
REL	Short-term value: 950 mg/m , 200 ppm Long-term value: 710 mg/m , 150 ppm
TLV	Short-term value: 150 ppm Long-term value: 50 ppm

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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

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

78-83-1 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

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

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

67-64-1 acetone

PEL	Long-term value: 2400 mg/m , 1000 ppm
REL	Long-term value: 590 mg/m , 250 ppm
TLV	Short-term value: 500 ppm Long-term value: 250 ppm A4, BEI

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

95-47-6 o-xylene

PEL	Long-term value: 435 mg/m , 100 ppm
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REL Short-term value: 655 mg/m³ , 150 ppm
 Long-term value: 435 mg/m³ , 100 ppm

TLV Short-term value: (150) ppm
 Long-term value: (100) NIC-20 ppm
 BEI, A4

50-00-0 formaldehyde

PEL Short-term value: 2 ppm
 Long-term value: 0.75 ppm
 see 29 CFR 1910.1048(c)

REL Long-term value: 0.016 ppm
 Ceiling limit value: 0.1* ppm
 *15-min; See Pocket Guide App. A

TLV Short-term value: 0.3 ppm
 Long-term value: 0.1 ppm
 DSEN; RSEN, A1

· Ingredients with biological limit values:**67-63-0 propan-2-ol**

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

1330-20-7 xylene

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

67-64-1 acetone

BEI 25 mg/L
 Medium: urine
 Time: end of shift
 Parameter: Acetone (nonspecific)

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)

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95-47-6 o-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 skin.
- Avoid contact with the eyes and skin.
- Pregnant women should strictly avoid inhalation or skin contact.

· **Breathing equipment:**

- Short term filter device:
- Filter AX



Suitable respiratory protective device recommended.

· **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

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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:

56 °C (132.8 °F)

· Flash point:

-4 °C (24.8 °F)

· Flammability (solid, gaseous):

Not applicable.

· Ignition temperature:

340 °C (644 °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:

1.1 Vol %

· Upper:

13 Vol %

· Vapor pressure at 20 °C (68 °F):

233 hPa (174.8 mm Hg)

· Density (+/- 0,03) at 20 °C (68 °F):

0.948 g/cm (7.911 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:

· VOC content:

70.87 %

671.9 g/l / 5.61 lb/gal

· Solids content:

27.6 %

· Other information (HAPS)

108-88-3	toluene	2.5-4.99%
1330-20-7	xylene	1-2.49%
100-41-4	ethylbenzene	0.5-1%
95-47-6	o-xylene	<0.5%
50-00-0	formaldehyde	<0.1%

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· **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	51,712 mg/kg
Dermal	LD50	47,483 mg/kg (rabbit)
Inhalative	LC50/4 h	475 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)

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)

123-86-4 n-butyl acetate

Oral	LD50	10,760 mg/kg (mouse)
Dermal	LD50	14,000 mg/kg (rabbit)
Inhalative	LC50/4 h	21.1 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)

108-88-3 toluene

Oral	LD50	5,000 mg/kg (mouse)
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Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	25.7 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)
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)
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)
67-64-1 acetone		
Oral	LD50	5,800 mg/kg (mouse)
Dermal	LD50	20,000 mg/kg (rabbit)
Inhalative	LC50/4 h	76 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)
50-00-0 formaldehyde		
Oral	LD50	100 mg/kg (mouse)
Dermal	LD50	270 mg/kg (rabbit)

- **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 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.

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

- **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

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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
50-00-0	formaldehyde	1

· **NTP (National Toxicology Program)**

50-00-0	formaldehyde	<0.1%
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· **OSHA-Ca (Occupational Safety & Health Administration)**

50-00-0	formaldehyde	<0.1%
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12 Ecological information

· **Toxicity**· **Aquatic toxicity:****110-19-0 isobutyl acetate**

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

141-78-6 ethyl acetate

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

123-86-4 n-butyl acetate

EC50	397 mg/l (algae) (72 h)
	44 mg/l (daphnia) (48 h)
LC50 (96h)	18 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)

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)

78-83-1 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)

1330-20-7 xylene

EC50	2.2 mg/l (algae)
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LC50 48h	1 mg/l (daphnia)
LC50 (96h)	2.6 mg/l (Fish)
67-64-1 acetone	
EC50	8,800 mg/l (daphnia)
LC50 (96h)	5,540 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)
50-00-0 formaldehyde	
EC50	4.89 mg/l (algae) (72 h)
	5.8 mg/l (daphnia) (48 h)
LC50 (96h)	6.7 mg/l (Fish)

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

- **Substances Easily biodegradable**

110-19-0	isobutyl acetate	.
141-78-6	ethyl acetate	.
123-86-4	n-butyl acetate	.
67-63-0	propan-2-ol	.
108-88-3	toluene	.
78-83-1	2-methylpropan-1-ol	.
1330-20-7	xylene	.
67-64-1	acetone	.
100-41-4	ethylbenzene	.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

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

- **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.

- **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.

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- **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
- *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

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· **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):**

50-00-0	formaldehyde	<0.1%
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· **Section 313 (Specific toxic chemical listings) :**

67-63-0	propan-2-ol	5-9.99%
108-88-3	toluene	2.5-4.99%
1330-20-7	xylene	1-2.49%
71-36-3	butan-1-ol	1-2.49%
100-41-4	ethylbenzene	0.5-1%
95-47-6	o-xylene	<0.5%
50-00-0	formaldehyde	<0.1%
110-82-7	cyclohexane	≥0.025-<0.1%

· **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
95-47-6	o-xylene
50-00-0	formaldehyde

· **Proposition 65**

· **Chemicals known to cause cancer:**

100-41-4	ethylbenzene	*	0.5-1%
50-00-0	formaldehyde	*	<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	2.5-4.99%
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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

108-88-3	toluene	II	2.5-4.99%
1330-20-7	xylene	I	1-2.49%
71-36-3	butan-1-ol	D	1-2.49%

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67-64-1	acetone	I	1-2.49%
100-41-4	ethylbenzene	D	0.5-1%
95-47-6	o-xylene	I	<0.5%
50-00-0	formaldehyde	B1	<0.1%
110-82-7	cyclohexane	I	≥0.025-<0.1%

· **TLV (Threshold Limit Value)**

67-63-0	propan-2-ol	A4
108-88-3	toluene	A4
1330-20-7	xylene	A4
67-64-1	acetone	A4
100-41-4	ethylbenzene	A3
95-47-6	o-xylene	A4
50-00-0	formaldehyde	A2

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

50-00-0	formaldehyde	<0.1%
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· **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 / 25
 - **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
 - Flammable Liquids 4: Flammable liquids . Category 4
 - Acute Toxicity - Oral 3: Acute toxicity . Category 3
 - Acute Toxicity - Dermal 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 - Skin 1A: Skin sensitisation . Category 1A
 - Germ Cell Mutagenicity 2: Germ cell mutagenicity . Category 2

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Carcinogenicity 1B: Carcinogenicity . Category 1B

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 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.*