

## 1 Identification

- **Product identifier**
  - *Product number* TS1173
  - *Trade name:* **UR CLEAR PRECAT SELF-S 35SH**
    - *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 3H336 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.<br>Route of exposure: Oral and Inhalation. |

### · 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 Health = \*3  
 FIRE 3 Fire = 3  
 REACTIVITY 0 Reactivity = 0

### 3 Composition/information on ingredients

**Chemical characterization: Mixtures**

- Description: Mixture: consisting of the following components.

**Dangerous components:**

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

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|           |  | (Contd. of page 2) |
|-----------|--|--------------------|
| 78-83-1   | 2-methylpropan-1-ol<br>⚠ Flammable Liquids 3, H226<br>👁 Eye Damage 1, H318<br>⚠ Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H335-H336   | ≥2.5-<3%           |
| 67-64-1   | acetone<br>⚠ Flammable Liquids 2, H225<br>⚠ Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336  | 2.5-4.99%          |
| 1330-20-7 | xylene<br>⚠ Flammable Liquids 3, H226<br>⚠ Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304<br>⚠ 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<br>Aquatic Acute 3, H402; Aquatic Chronic 3, H412 | 1-2.49%            |
| 71-36-3   | butan-1-ol<br>⚠ Flammable Liquids 3, H226<br>👁 Eye Damage 1, H318<br>⚠ Acute Toxicity - Oral 4, H302; Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H335-H336   | 1-2.49%            |
| 100-41-4  | ethylbenzene<br>⚠ Flammable Liquids 2, H225<br>⚠ Carcinogenicity 2, H351; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304<br>⚠ Acute Toxicity - Inhalation 4, H332<br>Aquatic Chronic 3, H412  | 0.5-1%             |
| 95-47-6   | o-xylene<br>⚠ Flammable Liquids 3, H226<br>⚠ Aspiration Hazard 1, H304<br>⚠ 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<br>⚠ Acute Toxicity - Oral 3, H301; Acute Toxicity - Dermal 3, H311; Acute Toxicity - Inhalation 3, H331<br>⚠ Germ Cell Mutagenicity 2, H341; Carcinogenicity 1B, H350<br>👁 Skin Corrosion 1B, H314<br>⚠ Sensitization - Skin 1A, H317<br>⚠ 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**

| <b>· PAC-1:</b> |                          |           |
|-----------------|--------------------------|-----------|
| 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   |
| 67-64-1         | acetone                  | 200 ppm   |
| 1330-20-7       | xylene                   | 130 ppm   |
| 71-36-3         | butan-1-ol               | 60 ppm    |
| 9002-88-4       | Polyethylene low density | 16 mg/m   |
| 100-41-4        | ethylbenzene             | 33 ppm    |

| <b>· PAC-2:</b> |                          |           |
|-----------------|--------------------------|-----------|
| 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 |
| 67-64-1         | acetone                  | 3200* ppm |
| 1330-20-7       | xylene                   | 920* ppm  |
| 71-36-3         | butan-1-ol               | 800 ppm   |
| 9002-88-4       | Polyethylene low density | 170 mg/m  |
| 100-41-4        | ethylbenzene             | 1100* ppm |

| <b>· PAC-3:</b> |                          |             |
|-----------------|--------------------------|-------------|
| 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   |
| 67-64-1         | acetone                  | 5700* ppm   |
| 1330-20-7       | xylene                   | 2500* ppm   |
| 71-36-3         | butan-1-ol               | 8000** ppm  |
| 9002-88-4       | Polyethylene low density | 1,000 mg/m  |
| 100-41-4        | ethylbenzene             | 1800* ppm   |

## 7 Handling and storage

**· Handling:**
**· Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.  
 Open and handle receptacle with care.  
 Prevent formation of aerosols.

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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

**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

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**108-88-3 toluene**

|     |   |
|-----|---|
| PEL | Long-term value: 200 ppm<br>Ceiling limit value: 300; 500* ppm<br>*10-min peak per 8-hr shift |
| REL | Short-term value: 560 mg/m , 150 ppm<br>Long-term value: 375 mg/m , 100 ppm                   |
| TLV | Long-term value: 20 ppm<br>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             |

**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<br>Long-term value: 250 ppm<br>A4, BEI |

**1330-20-7 xylene**

|     |   |
|-----|---|
| PEL | Long-term value: 435 mg/m , 100 ppm   |
| REL | Short-term value: 655 mg/m , 150 ppm<br>Long-term value: 435 mg/m , 100 ppm |
| TLV | Short-term value: (150) ppm<br>Long-term value: (100) NIC-20 ppm<br>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<br>Skin |
| TLV | Long-term value: 20 ppm                        |

**100-41-4 ethylbenzene**

|     |   |
|-----|---|
| PEL | Long-term value: 435 mg/m , 100 ppm   |
| REL | Short-term value: 545 mg/m , 125 ppm<br>Long-term value: 435 mg/m , 100 ppm |
| TLV | Long-term value: 20 NIC-20 ppm<br>BEI, A3, NIC: OTO, BEI, A3                |

**95-47-6 o-xylene**

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

**50-00-0 formaldehyde**

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

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|     |   |
|-----|---|
| REL | Long-term value: 0.016 ppm<br>Ceiling limit value: 0.1* ppm<br>*15-min; See Pocket Guide App. A |
| TLV | Short-term value: 0.3 ppm<br>Long-term value: 0.1 ppm<br>DSEN; RSEN, A1                         |

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

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

**108-88-3 toluene**

|     |  |
|-----|--|
| BEI | 0.02 mg/L<br>Medium: blood<br>Time: prior to last shift of workweek<br>Parameter: Toluene                      |
|     | 0.03 mg/L<br>Medium: urine<br>Time: end of shift<br>Parameter: Toluene   |
|     | 0.3 mg/g creatinine<br>Medium: urine<br>Time: end of shift<br>Parameter: o-Cresol with hydrolysis (background) |

**67-64-1 acetone**

|     |  |
|-----|--|
| BEI | 25 mg/L<br>Medium: urine<br>Time: end of shift<br>Parameter: Acetone (nonspecific) |
|-----|--|

**1330-20-7 xylene**

|     |  |
|-----|--|
| BEI | 1.5 g/g creatinine<br>Medium: urine<br>Time: end of shift<br>Parameter: Methylhippuric acids |
|-----|--|

**100-41-4 ethylbenzene**

|     |   |
|-----|---|
| BEI | 0.15 g/g creatinine<br>Medium: urine<br>Time: end of shift at end of workweek<br>Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific) |
|-----|---|

**95-47-6 o-xylene**

|     |  |
|-----|--|
| BEI | 1.5 g/g creatinine<br>Medium: urine<br>Time: end of shift<br>Parameter: Methylhippuric acids |
|-----|--|

**· Additional information:** The lists that were valid during the creation were used as basis.

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**· 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

**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.

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|   |  |  |
|---|--|--|
| · <b>Change in condition</b>                                      |  |  |
| · <b>Melting point/Melting range:</b>                             | Undetermined.  |  |
| · <b>Boiling point/Boiling range:</b>                             | 56 °C (132.8 °F)   |  |
| · <b>Flash point:</b>   | -4 °C (24.8 °F)  |  |
| · <b>Flammability (solid, gaseous):</b>                           | Not applicable.  |  |
| · <b>Ignition temperature:</b>                                    | 340 °C (644 °F)  |  |
| · <b>Decomposition temperature:</b>                               | Not determined.  |  |
| · <b>Auto igniting:</b>   | Product is not selfigniting.   |  |
| · <b>Danger of explosion:</b>                                     | Product is not explosive. However, formation of explosive air/vapor mixtures are possible. |  |
| · <b>Explosion limits:</b>  |  |  |
| · <b>Lower:</b>   | 1.1 Vol %  |  |
| · <b>Upper:</b>   | 13 Vol %   |  |
| · <b>Vapor pressure at 20 °C (68 °F):</b>                         | 233 hPa (174.8 mm Hg)  |  |
| · <b>Density (+/- 0,03) at 20 °C (68 °F):</b>                     | 0.929 g/cm (7.753 lbs/gal)   |  |
| · <b>Relative density</b>   | Not determined.  |  |
| · <b>Vapor density</b>  | Not determined.  |  |
| · <b>Evaporation rate</b>   | Not determined.  |  |
| · <b>Solubility in / Miscibility with</b>                         |  |  |
| · <b>Water:</b>   | Not miscible or difficult to mix.  |  |
| · <b>Partition coefficient (n-octanol/water):</b> Not determined. |  |  |
| · <b>Viscosity:</b>   |  |  |
| · <b>Dynamic:</b>   | Not determined.  |  |
| · <b>Kinematic at 20 °C (68 °F):</b>                              | 25 s (ISO 6 mm)  |  |
| · <b>Oxidising properties:</b>                                    | N.A.   |  |
| · <b>Solvent content:</b>   |  |  |
| · <b>VOC content:</b>   | 71.61 %<br>665.2 g/l / 5.55 lb/gal   |  |
| · <b>Solids content:</b>  | 25.9 %   |  |
| · <b>Other information (HAPS)</b>                                 |  |  |
| 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%                                      |
| · <b>Other information</b>  |  | No further relevant information available. |

## 10 Stability and reactivity

- **Reactivity** typical of the product as indicated in the data sheet
- **Chemical stability** The product is stable in normal conditions of storage and use recommended
  - **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.

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- **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)   |
| 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)    |

#### 67-64-1 acetone

|      |      |                     |
|------|------|---------------------|
| Oral | LD50 | 5,800 mg/kg (mouse) |
|------|------|---------------------|

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|                              |          |                                  |
|------------------------------|----------|----------------------------------|
| Dermal                       | LD50     | 20,000 mg/kg (rabbit)            |
| Inhalative                   | LC50/4 h | 76 mg/l (mouse)                  |
| <b>1330-20-7 xylene</b>      |          |                                  |
| 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)              |
| <b>71-36-3 butan-1-ol</b>    |          |                                  |
| Oral                         | LD50     | 790 mg/kg (mouse)                |
| Dermal                       | LD50     | 3,400 mg/kg (rabbit)             |
| Inhalative                   | LC50/4 h | 8,000 mg/l (mouse)               |
| <b>100-41-4 ethylbenzene</b> |          |                                  |
| Oral                         | LD50     | 3,500 mg/kg (mouse)              |
| Dermal                       | LD50     | 15,486 mg/kg (rabbit)            |
| Inhalative                   | LC50/4 h | 17.2 mg/l (mouse)                |
| <b>50-00-0 formaldehyde</b>  |          |                                  |
| 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 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.

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

## 12 Ecological information

### · Toxicity

| · Aquatic toxicity:                |   |
|------------------------------------|---|
| <b>110-19-0 isobutyl acetate</b>   |   |
| EC50                               | 370 mg/l (algae) (72 h)<br>25 mg/l (daphnia)              |
| LC50 (96h)                         | 17 mg/l (Fish)  |
| <b>141-78-6 ethyl acetate</b>      |   |
| EC50                               | 165 mg/l (daphnia) (48 h)                                 |
| LC50 (96h)                         | 230 mg/l (Fish)   |
| <b>123-86-4 n-butyl acetate</b>    |   |
| EC50                               | 397 mg/l (algae) (72 h)<br>44 mg/l (daphnia) (48 h)       |
| LC50 (96h)                         | 18 mg/l (Fish)  |
| <b>67-63-0 propan-2-ol</b>         |   |
| EC50                               | 1,001 mg/l (algae) (72 h)<br>10,000 mg/l (daphnia) (24 h) |
| LC50 (96h)                         | 9,640 mg/l (Fish)   |
| <b>108-88-3 toluene</b>            |   |
| EC50                               | 134 mg/l (algae) (96 h)<br>3.78 mg/l (daphnia) (48 h)     |
| LC50 (96h)                         | 5.5 mg/l (Fish)   |
| <b>78-83-1 2-methylpropan-1-ol</b> |   |
| EC50                               | 1,799 mg/l (algae) (72 h)<br>1,100 mg/l (daphnia) (48 h)  |
| LC50 (96h)                         | 1,430 mg/l (Fish)   |
| <b>67-64-1 acetone</b>             |   |
| EC50                               | 8,800 mg/l (daphnia)                                      |
| LC50 (96h)                         | 5,540 mg/l (Fish)   |
| <b>1330-20-7 xylene</b>            |   |
| EC50                               | 2.2 mg/l (algae)  |
| LC50 48h                           | 1 mg/l (daphnia)  |
| LC50 (96h)                         | 2.6 mg/l (Fish)   |
| <b>100-41-4 ethylbenzene</b>       |   |
| EC50                               | 438 mg/l (algae) (72h)                                    |

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|                             |                           |
|-----------------------------|---------------------------|
|                             | 1.8 mg/l (daphnia) (48 h) |
| LC50 (96h)                  | 12.1 mg/l (Fish)          |
| <b>50-00-0 formaldehyde</b> |                           |
| 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.

|  |                       |
|--|-----------------------|
| · <b>Substances Easily biodegradable</b> |                       |
| 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 . |
| 67-64-1                                  | acetone .             |
| 1330-20-7                                | xylene .              |
| 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.

- **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

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|   |   |
|---|---|
| · <b>IMDG, IATA</b>   | <b>PAINT</b>  |
| · <b>Transport hazard class(es)</b>   |   |
| · <b>DOT</b>  |   |
|  |   |
| · <b>Class</b>  | 3 Flammable liquids   |
| · <b>Label</b>  | 3   |
| · <b>Class</b>  | 3 Flammable liquids   |
| · <b>Label</b>  | 3   |
| · <b>IMDG, IATA</b>   |   |
|  |   |
| · <b>Class</b>  | 3 Flammable liquids   |
| · <b>Label</b>  | 3   |
| · <b>Packing group</b>  |   |
| · <b>DOT, IMDG, IATA</b>  | II  |
| · <b>Environmental hazards:</b>   |   |
| · <b>Marine pollutant:</b>  | No  |
| · <b>Special precautions for user</b>   | Warning: Flammable liquids  |
| · <b>Hazard identification number (Kemler code):</b>                              | 33  |
| · <b>EMS Number:</b>  | F-E, S-E  |
| · <b>Stowage Category</b>   | B   |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>  | Not applicable.   |
| · <b>Transport/Additional information:</b>  |   |
| · <b>IMDG</b>   |   |
| · <b>Limited quantities (LQ)</b>  | 5L  |
| · <b>Excepted quantities (EQ)</b>   | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · <b>UN "Model Regulation":</b>   | UN 1263 PAINT, 3, II  |

## 15 Regulatory information

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

· **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% |
|----------|---------|-----------|

· Carcinogenic categories

· EPA (Environmental Protection Agency)

|           |              |    |              |
|-----------|--------------|----|--------------|
| 108-88-3  | toluene      | II | 2.5-4.99%    |
| 67-64-1   | acetone      | I  | 2.5-4.99%    |
| 1330-20-7 | xylene       | I  | 1-2.49%      |
| 71-36-3   | butan-1-ol   | D  | 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 |
| 67-64-1   | acetone      | A4 |
| 1330-20-7 | xylene       | A4 |
| 100-41-4  | ethylbenzene | A3 |

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|   |              |       |
|---|--------------|-------|
| 95-47-6   | o-xylene     | A4    |
| 50-00-0   | formaldehyde | A2    |
| · <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b> |              |       |
| 50-00-0   | formaldehyde | <0.1% |

- **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 / 40

- **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  
 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.**