

## 1 Identification

- **Product identifier**
  - *Product number* LKR6AB14
  - *Trade name:* **white PU top coat 20sh**
    - *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**
  - Flam. Liq. 3 H226 Flammable liquid and vapor.
  - Skin Irrit. 2 H315 Causes skin irritation.
  - Eye Irrit. 2A H319 Causes serious eye irritation.
  - Carc. 1A H350 May cause cancer.
  - Repr. 2 H361 Suspected of damaging fertility or the unborn child.
  - STOT SE 3 H336 May cause drowsiness or dizziness.
  - STOT RE 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.

### · Label elements

- *GHS label elements*  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- *Hazard pictograms*



GHS02 GHS07 GHS08

- *Signal word* Danger
- *Hazard-determining components of labeling:*  
xylene  
isobutyl acetate  
ethylbenzene  
toluene
- *Hazard statements*  
H226 Flammable liquid and vapor.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H350 May cause cancer.  
H361 Suspected of damaging fertility or the unborn child.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Oral and Inhalation.

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**Precautionary statements**

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Classification system:**
**NFPA ratings (scale 0 - 4)**

**HMIS-ratings (scale 0 - 4)**












HEALTH	2	Health = *2
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  Flam. Liq. 2, H225  STOT SE 3, H336	10-12.49%
1330-20-7	xylene  Flam. Liq. 3, H226  STOT RE 2, H373; Asp. Tox. 1, H304  Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335 Aquatic Chronic 3, H412	5-9.99%
123-86-4	n-butyl acetate  Flam. Liq. 3, H226  STOT SE 3, H336	5-9.99%
141-78-6	ethyl acetate  Flam. Liq. 2, H225  Eye Irrit. 2A, H319; STOT SE 3, H336	1-2.49%
108-65-6	2-methoxy-1-methylethyl acetate  Flam. Liq. 3, H226  STOT SE 3, H336	1-2.49%

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78-83-1	2-methylpropan-1-ol ⚠ Flam. Liq. 3, H226 ⚠ Eye Dam. 1, H318 ⚠ Skin Irrit. 2, H315; STOT SE 3, H335-H336	1-2.49%
100-41-4	ethylbenzene ⚠ Flam. Liq. 2, H225 ⚠ Carc. 2, H351; STOT RE 2, H373; Asp. Tox. 1, H304 ⚠ Acute Tox. 4, H332 Aquatic Chronic 3, H412	1-2.49%
108-88-3	toluene ⚠ Flam. Liq. 2, H225 ⚠ Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H336 Aquatic Chronic 3, H412	1-2.49%
108-10-1	4-methylpentan-2-one ⚠ Flam. Liq. 2, H225 ⚠ Carc. 2, H351 ⚠ Acute Tox. 4, H332; Eye Irrit. 2A, H319; STOT SE 3, H335	0.5-1%
64-17-5	ethanol ⚠ Flam. Liq. 2, H225 ⚠ Carc. 1A, H350 ⚠ Eye Irrit. 2A, H319	≥0.1-<0.5%
77-99-6	propylidynetrimethanol ⚠ Repr. 2, H361	≥0.1-<0.5%

## 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.

#### · 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.

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## 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<sub>x</sub>)

Carbon monoxide (CO)

- **Advice for firefighters**

Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health and also, in the case of closed containers exposed to flames to prevent explosions.

- *Protective equipment:*

- Hardhat with visor, fireproof clothing, suitable gloves and if necessary respiratory protective device.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

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).

Dispose contaminated material as waste according to Section 13.

Ensure adequate ventilation.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

- **Protective Action Criteria for Chemicals**

- **PAC-1:**

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	30 mg/m
110-19-0	isobutyl acetate	450 ppm
1330-20-7	xylene	130 ppm
123-86-4	n-butyl acetate	5 ppm
7631-86-9	silicon dioxide, chemically prepared	18 mg/m
141-78-6	ethyl acetate	1,200 ppm
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
78-83-1	2-methylpropan-1-ol	150 ppm
100-41-4	ethylbenzene	33 ppm
108-88-3	toluene	67 ppm
9002-84-0	Polytetrafluoroethylene	12 mg/m

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108-10-1	4-methylpentan-2-one	75 ppm
9002-88-4	Polyethylene low density	16 mg/m
64-17-5	ethanol	1,800 ppm

## · PAC-2:

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	330 mg/m
110-19-0	isobutyl acetate	1300* ppm
1330-20-7	xylene	920* ppm
123-86-4	n-butyl acetate	200 ppm
7631-86-9	silicon dioxide, chemically prepared	740 mg/m
141-78-6	ethyl acetate	1,700 ppm
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
78-83-1	2-methylpropan-1-ol	1,300 ppm
100-41-4	ethylbenzene	1100* ppm
108-88-3	toluene	560 ppm
9002-84-0	Polytetrafluoroethylene	130 mg/m
108-10-1	4-methylpentan-2-one	500 ppm
9002-88-4	Polyethylene low density	170 mg/m
64-17-5	ethanol	3300* ppm

## · PAC-3:

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	2,000 mg/m
110-19-0	isobutyl acetate	7500** ppm
1330-20-7	xylene	2500* ppm
123-86-4	n-butyl acetate	3000* ppm
7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m
141-78-6	ethyl acetate	10000** ppm
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
78-83-1	2-methylpropan-1-ol	8000* ppm
100-41-4	ethylbenzene	1800* ppm
108-88-3	toluene	3700* ppm
9002-84-0	Polytetrafluoroethylene	790 mg/m
108-10-1	4-methylpentan-2-one	3000* ppm
9002-88-4	Polyethylene low density	1,000 mg/m
64-17-5	ethanol	15000* ppm

## 7 Handling and storage

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

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Protect against electrostatic charges.

Keep respiratory protective device available.

Use explosion-proof apparatus / fittings and spark-proof tools.

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

Keep ignition sources away - Do not smoke.

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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:**

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.**

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

## 8 Exposure controls/personal protection

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

· **Control parameters**

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

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

At this time, the remaining constituent has no known exposure limits.

### 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

### 1330-20-7 xylene

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

### 123-86-4 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

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

PEL	Long-term value: 300 mg/m , 100 ppm
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REL Long-term value: 150 mg/m , 50 ppm

TLV 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

**108-10-1 4-methylpentan-2-one**

PEL Long-term value: 410 mg/m , 100 ppm

REL Short-term value: 300 mg/m , 75 ppm

Long-term value: 205 mg/m , 50 ppm

TLV Short-term value: 75 ppm

Long-term value: 20 ppm

BEI, A3

**64-17-5 ethanol**

PEL Long-term value: 1900 mg/m , 1000 ppm

REL Long-term value: 1900 mg/m , 1000 ppm

TLV Short-term value: 1000 ppm

A3

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

BEI 1.5 g/g creatinine

Medium: urine

Time: end of shift

Parameter: Methylhippuric acids

**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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**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)

**108-10-1 4-methylpentan-2-one**

**BEI** 1 mg/L  
Medium: urine  
Time: end of shift  
Parameter: MIBK

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

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the eyes and skin.
- Pregnant women should strictly avoid inhalation or skin contact.

· **Breathing equipment:**

Short term filter device:



Suitable respiratory protective device recommended.

Filter A

· **Protection of hands:**



Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The glove material has to be impermeable and resistant to the product .

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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- **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:** 25 °C (77 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** >300 °C (>572 °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):** 97 hPa (72.8 mm Hg)

· **Density (+/- 0,03) at 20 °C (68 °F):** 1.316 g/cm (10.982 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):** 55 s (ISO 6 mm)

· **Oxidising properties:** N.A.

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· <b>Solvent content:</b>		
· <b>Water:</b>		0.0 %
· <b>VOC content:</b>		34.88 %
		459.1 g/l / 3.83 lb/gal
· <b>Solids content:</b>		64.9 %
· <b>Other information (HAPS)</b>		
1330-20-7	xylene	5-9.99%
100-41-4	ethylbenzene	1-2.49%
108-88-3	toluene	1-2.49%
108-10-1	4-methylpentan-2-one	0.5-1%
· <b>Other information</b>		No further relevant information available.

## 10 Stability and reactivity

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

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>ATE (Acute Toxicity Estimate)</b>		
Dermal	LD50	15,451 mg/kg (rabbit)
Inhalative	LC50/4 h	135 mg/l (mouse)
<b>110-19-0 isobutyl acetate</b>		
Oral	LD50	13,400 mg/kg (mouse)
Dermal	LD50	17,401 mg/kg (rabbit)
Inhalative	LC50/4 h	31 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)

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**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)

**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)

**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)

**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)

**108-10-1 4-methylpentan-2-one**

Oral	LD50	2,080 mg/kg (mouse)
Dermal	LD50	16,000 mg/kg (rab)
Inhalative	LC50/4 h	16.6 mg/l (mouse)

**64-17-5 ethanol**

Oral	LD50	10,470 mg/kg (mouse)
Dermal	LD50	20,000 mg/kg (rabbit)
Inhalative	LC50/4 h	124.7 mg/l (mouse)

**77-99-6 propylidynetrimehanol**

Oral	LD50	14,700 mg/kg (mouse)
Dermal	LD50	10,001 mg/kg (mouse)

**64741-65-7 Naphtha (petroleum), heavy alkylate**

Oral	LD50	6,001 mg/kg (mouse)
Dermal	LD50	3,001 mg/kg (rabbit)

· **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

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US

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· **Additional toxicological information:**

**Irritant**

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

Contains Fatty acids, tallow, oleylamine compounds. May produce an allergic reaction.

**Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.**

· **Carcinogenic categories**

**Titanium dioxide**

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**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)**

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	2B - DUST
100-41-4	ethylbenzene	2B
108-10-1	4-methylpentan-2-one	2B
64-17-5	ethanol	1

· **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**

· **Aquatic toxicity:**

**110-19-0 isobutyl acetate**

EC50 370 mg/l (algae) (72 h)

25 mg/l (daphnia)

LC50 (96h) 17 mg/l (Fish)

**1330-20-7 xylene**

EC50 2.2 mg/l (algae) (72h)

LC50 48h 1 mg/l (daphnia)

LC50 (96h) 2.6 mg/l (Fish)

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<b>123-86-4 n-butyl acetate</b>	
EC50	397 mg/l (algae) (72 h) 44 mg/l (daphnia) (48 h)
LC50 (96h)	18 mg/l (Fish)
<b>141-78-6 ethyl acetate</b>	
EC50	165 mg/l (daphnia) (48 h)
LC50 (96h)	230 mg/l (Fish)
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
EC50	1,001 mg/l (algae) (72 h) 501 mg/l (daphnia) (48 h)
LC50 (96h)	134 mg/l (Fish)
<b>78-83-1 2-methylpropan-1-ol</b>	
EC50	1,799 mg/l (algae) (72 h) 1,100 mg/l (daphnia) (48 h)
LC50 (96h)	1,430 mg/l (Fish)
<b>100-41-4 ethylbenzene</b>	
EC50	438 mg/l (algae) (72h) 1.8 mg/l (daphnia) (48 h)
LC50 (96h)	12.1 mg/l (Fish)
<b>108-88-3 toluene</b>	
EC50	134 mg/l (algae) (96 h) 3.78 mg/l (daphnia) (48 h)
LC50 (96h)	5.5 mg/l (Fish)
<b>108-10-1 4-methylpentan-2-one</b>	
EC50	201 mg/l (daphnia) (48 h)
LC50 (96h)	180 mg/l (Fish)
<b>64-17-5 ethanol</b>	
EC50	5,012 mg/l (daphnia) (48 h)
LC50 (96h)	15.3 mg/l (Fish)
<b>77-99-6 propylidynetrimethanol</b>	
EC50	1,001 mg/l (algae) (72h) 13,000 mg/l (daphnia) (48h)
LC50 (96h)	1,001 mg/l (Fish)

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

· **Substances Easily biodegradable**

110-19-0	isobutyl acetate	.
1330-20-7	xylene	.
123-86-4	n-butyl acetate	.
141-78-6	ethyl acetate	.
108-65-6	2-methoxy-1-methylethyl acetate	.
78-83-1	2-methylpropan-1-ol	.
100-41-4	ethylbenzene	.
108-88-3	toluene	.
108-10-1	4-methylpentan-2-one	.

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- **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 1 (Self-assessment): slightly hazardous for water  
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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, IATA UN1263
  - ADN, IMDG Not applicable
  - Note Check the viscosity at section 9
- **UN proper shipping name**
  - DOT Paint
  - ADN, IMDG Not applicable
  - IATA PAINT
- **Transport hazard class(es)**
  - DOT
    - 
    - Class 3 Flammable liquids
    - Label 3
    - Class Not applicable
- IATA
  - 
  - Class 3 Flammable liquids
  - Label 3

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- |                                                                                  |                    |
|----------------------------------------------------------------------------------|--------------------|
| · <b>Packing group</b>                                                           |                    |
| · DOT, IATA                                                                      | III                |
| · IMDG                                                                           | Not applicable     |
| · <b>Environmental hazards:</b>                                                  |                    |
| · Marine pollutant:                                                              | No                 |
| · <b>Special precautions for user</b>                                            | Not applicable.    |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.    |
| · <b>Transport/Additional information:</b>                                       |                    |
| · DOT                                                                            |                    |
| · Remarks:                                                                       | > 450 l: 3 F1, III |
| · IMDG                                                                           |                    |
| · Remarks:                                                                       | > 450 l: 3, III    |
| · <b>UN "Model Regulation":</b>                                                  | Not applicable     |

## 15 Regulatory information

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

- Various regulations
- SARA

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

None of the ingredients is listed.

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

1330-20-7	xylene	5-9.99%
100-41-4	ethylbenzene	1-2.49%
108-88-3	toluene	1-2.49%
108-10-1	4-methylpentan-2-one	0.5-1%
67-63-0	propan-2-ol	<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
108-10-1	4-methylpentan-2-one

- **Proposition 65**

- **Chemicals known to cause cancer:**

Titanium dioxide only in bound form

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	only for Dust	30-39.99%
100-41-4	ethylbenzene	*	1-2.49%
108-10-1	4-methylpentan-2-one	*	0.5-1%

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· **Chemicals known to cause reproductive toxicity for females:**

70657-70-4	2-methoxypropyl acetate	<0.01%
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· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

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

108-88-3	toluene	1-2.49%
108-10-1	4-methylpentan-2-one	0.5-1%
64-17-5	ethanol	≥0.1-<0.5%

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

1330-20-7	xylene	I	5-9.99%
100-41-4	ethylbenzene	D	1-2.49%
108-88-3	toluene	II	1-2.49%
108-10-1	4-methylpentan-2-one	I	0.5-1%
78-93-3	butanone	I	<0.01%

· **TLV (Threshold Limit Value)**

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	A4
1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3
108-88-3	toluene	A4
64-17-5	ethanol	A3
67-63-0	propan-2-ol	A4

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

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	30-39.99%
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· **National regulations:**

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

- **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** 08/30/2021 / 30

· **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)

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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  
 Flam. Liq. 2: Flammable liquids . Category 2  
 Flam. Liq. 3: Flammable liquids . Category 3  
 Acute Tox. 4: Acute toxicity . Category 4  
 Skin Irrit. 2: Skin corrosion/irritation . Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation . Category 1  
 Eye Irrit. 2A: Serious eye damage/eye irritation . Category 2A  
 Carc. 1A: Carcinogenicity . Category 1A  
 Carc. 2: Carcinogenicity . Category 2  
 Repr. 2: Reproductive toxicity . Category 2  
 STOT SE 3: Specific target organ toxicity (single exposure) . Category 3  
 STOT RE 2: Specific target organ toxicity (repeated exposure) . Category 2  
 Asp. Tox. 1: Aspiration hazard . Category 1  
 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.