

Printing date 08/15/2022 Version number 103 Reviewed on 07/14/2022

#### 1 Identification

- · Product identifier
  - · Product number PL50
  - · Trade name: PU TOP-C WHITE 25SH
    - · Application of the substance / the mixture For professional use
- · Details of the supplier of the safety data sheet
  - · Manufacturer/Supplier:

IVM Chemicals Srl

Viale della Stazione 3 -27020 Parona (PV)Italy -Tel +39 038425441

· Information department:

Environmental Health and safety office

hseoffice@ivmchemicals.com

· Emergency telephone number:

ChemTel Expert Assistance Hotline/SDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

## 2 Hazard(s) identification

## · Classification of the substance or mixture

Flammable Liquids 2 H225 Highly flammable liquid and vapor.

Skin Irrititation 2 H315 Causes skin irritation. Eve Irritation 2A H319 Causes serious eve irritation. H351 Suspected of causing cancer. Carcinogenicity 2

H361 Suspected of damaging fertility or the Toxic to Reproduction 2 unborn child.

Specific Target Organ Toxicity - Repeated H373 May cause damage to the hearing organs through prolonged or repeated exposure. Exposure 2 Route of exposure: Oral, Inhalation.

#### · Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms







GHS02 GHS07

· Signal word Danger

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

xylene

ethylbenzene

#### · Hazard statements

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Oral, Inhalation.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P210

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

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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)



Health = 2Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2Fire = 3

Reactivity = 0

## 3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

1330-20-7	xylene	15-19.99%
	<ul> <li>Flammable Liquids 3, H226</li> <li>Specific Target Organ Toxicity - Repeated Exposure 2, H373;         Aspiration Hazard 1, H304</li> <li>Acute Toxicity - Dermal 4, H312; Acute Toxicity - Inhalation 4, H332;         Skin Irrititation 2, H315; Eye Irritation 2A, H319; Specific Target         Organ Toxicity - Single Exposure 3, H335</li> <li>Aquatic Acute 3, H402; Aquatic Chronic 3, H412</li> </ul>	
110-19-0	isobutyl acetate  Flammable Liquids 2, H225  Specific Target Organ Toxicity - Single Exposure 3, H336	5-9.99%
100-41-4	ethylbenzene  Flammable Liquids 2, H225 Carcinogenicity 2, H351; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304 Acute Toxicity - Inhalation 4, H332 Aquatic Chronic 3, H412	2.5-4.99%
141-78-6	ethyl acetate  Flammable Liquids 2, H225  Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	1-2.49%
123-86-4	n-butyl acetate  Flammable Liquids 3, H226  Specific Target Organ Toxicity - Single Exposure 3, H336	1-2.49%
78-93-3	butanone  Flammable Liquids 2, H225  Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	0.5-1%



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108-88-3	<ul> <li>★ Flammable Liquids 2, H225</li> <li>★ Toxic to Reproduction 2, H361; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304</li> <li>↑ Skin Irrititation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H336</li> <li>Aquatic Chronic 3, H412</li> </ul>	0.5-1%
108-10-1	4-methylpentan-2-one <ul> <li>Flammable Liquids 2, H225</li> <li>Carcinogenicity 2, H351</li> <li>Acute Toxicity - Inhalation 4, H332; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335</li> </ul>	≥0.1-<0.5%
108-94-1	cyclohexanone  Flammable Liquids 3, H226 Eye Damage 1, H318 Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Acute Toxicity - Inhalation 4, H332; Skin Irrititation 2, H315	<0.5%
67-63-0	propan-2-ol  Flammable Liquids 2, H225  Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	<0.5%
108-65-6	2-methoxy-1-methylethyl acetate  Flammable Liquids 3, H226  Specific Target Organ Toxicity - Single Exposure 3, H336	<0.5%
64-17-5	ethanol  Flammable Liquids 2, H225  Eye Irritation 2A, H319	<0.5%
77-99-6	propylidynetrimethanol  Toxic to Reproduction 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.

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· 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).

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	7 Titanium dioxide C.I. 77891 Pigment white 6	30 mg/m³
1330-20-7	7 xylene	130 ppm
110-19-0	isobutyl acetate	450 ppm
7631-86-9	9 silicon dioxide, chemically prepared	18 mg/m³
100-41-4	4 ethylbenzene	33 ppm
141-78-6	6 ethyl acetate	1,200 ppm
123-86-4	1 n-butyl acetate	5 ppm
78-93-3	3 butanone	200 ppm
9002-88-4	Polyethylene low density	16 mg/m <sup>3</sup>
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108-88-3	toluene	(Contd. of page 67 ppm
108-10-1	4-methylpentan-2-one	75 ppm
	cyclohexanone	60 ppm
	propylene carbonate	34 mg/m
67-63-0	propan-2-ol	400 ppm
	2-methoxy-1-methylethyl acetate	50 ppm
64-17-5	ethanol	1,800 pp
· PAC-2:		'
13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	330 mg/i
1330-20-7		920* ppr
110-19-0	isobutyl acetate	1300* pp
7631-86-9	silicon dioxide, chemically prepared	740 mg/i
	ethylbenzene	1100* pp
141-78-6	ethyl acetate	1, <b>7</b> 00 pp
123-86-4	n-butyl acetate	200 ppm
78-93-3	butanone	2700* pp
9002-88-4	Polyethylene low density	170 mg/i
108-88-3	toluene	560 ppm
108-10-1	4-methylpentan-2-one	500 ppm
108-94-1	cyclohexanone	830 ppm
108-32-7	propylene carbonate	370 mg/i
67-63-0	propan-2-ol	2000* pp
108-65-6	2-methoxy-1-methylethyl acetate	1,000 pp
64-17-5	ethanol	3300* pp
· PAC-3:		
13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	2,000 mg/r
1330-20-7		2500* ppm
110-19-0	isobutyl acetate	7500** ppr
7631-86-9	silicon dioxide, chemically prepared	4,500 mg/r
100-41-4	ethylbenzene	1800* ppm
141-78-6	ethyl acetate	10000** pp
123-86-4	n-butyl acetate	3000* ppm
78-93-3	butanone	4000* ppm
9002-88-4	Polyethylene low density	1,000 mg/r
108-88-3	toluene	3700* ppm
108-10-1	4-methylpentan-2-one	3000* ppm
	cyclohexanone	5000* ppm
108-32-7	propylene carbonate	2,200 mg/r
67-63-0	propan-2-ol	12000** pp
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
64-17-5	ethanol	15000* ppi



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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:

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.

1330-	0-20-7 xylene			
PEL	Long-term value: 435 mg/m³, 100 ppm			
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			
110-1	9-0 isobutyl acetate			
PEL	Long-term value: 700 mg/m³, 150 ppm			
REL	Long-term value: 700 mg/m³, 150 ppm			
TLV	Short-term value: 150 ppm Long-term value: 50 ppm			
	(Contd. on page 7			



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## PEL Long-term value: 435 mg/m³, 100 ppm  ## REL Short-term value: 545 mg/m³, 125 ppm	(Contd. of p
REL Short-term value: 435 mg/m³, 125 ppm Long-term value: 435 mg/m³, 100 ppm BEI, A3, NIC: OTO, BEI, A3  141-78-6 ethyl acetate PEL Long-term value: 1400 mg/m³, 400 ppm REL, Cong-term value: 1400 mg/m³, 400 ppm REL Long-term value: 1400 mg/m³, 400 ppm 123-86-4 n-butyl acetate PEL Long-term value: 400 ppm 123-86-4 n-butyl acetate PEL Long-term value: 710 mg/m³, 150 ppm REL Short-term value: 950 mg/m³, 200 ppm Long-term value: 150 ppm Long-term value: 50 ppm Long-term value: 50 ppm REL Short-term value: 50 ppm Long-term value: 590 mg/m³, 200 ppm Long-term value: 590 mg/m³, 200 ppm REL Short-term value: 885 mg/m³, 300 ppm Long-term value: 300 ppm REL Long-term value: 200 ppm BEI Long-term value: 200 ppm BEI Long-term value: 200 ppm BEI Short-term value: 200 ppm BEI Long-term value: 200 ppm BEI Long-term value: 300; 500* ppm *10-min peak per 8-hr shift REL Short-term value: 375 mg/m³, 150 ppm Long-term value: 20 ppm BEI, OTO, A4  108-10-1 4-methylpentan-2-one PEL Long-term value: 410 mg/m³, 150 ppm Long-term value: 205 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm  TLV Short-term value: 205 mg/m³, 50 ppm REL Long-term value: 205 mg/m³, 50 ppm Long-term value: 205 mg/m³, 50 ppm Long-term value: 205 mg/m³, 50 ppm Long-term value: 200 mg/m³, 50 ppm REL Long-term value: 200 mg/m³, 50 ppm Long-term value: 200 mg/m³, 50 ppm REL Long-term value: 200 mg/m³, 50 ppm REL Long-term value: 200 mg/m³, 50 ppm	
Long-term value: 435 mg/m³, 100 ppm	
TLV	
BEI, A3, NIC: OTO, BEI, A3  141-78-6 ethyl acetate  PEL Long-term value: 1400 mg/m³, 400 ppm  REL Long-term value: 400 ppm  1LV Long-term value: 400 ppm  1LV Long-term value: 400 ppm  1LOR-term value: 400 ppm  1LOR-term value: 570 mg/m³, 150 ppm  REL Long-term value: 550 mg/m³, 200 ppm  Long-term value: 150 ppm  Long-term value: 50 ppm  TLV Short-term value: 50 ppm  Long-term value: 50 ppm  REL Long-term value: 590 mg/m³, 200 ppm  Long-term value: 885 mg/m³, 300 ppm  Long-term value: 890 mg/m³, 200 ppm  TLV Short-term value: 300 ppm  Long-term value: 200 ppm  BEI  108-88-3 toluene  PEL Long-term value: 200 ppm  Ceiling limit value: 300; 500* ppm  *10-min peak per 8-hr shift  Short-term value: 560 mg/m³, 150 ppm  Long-term value: 375 mg/m³, 100 ppm  TLV Long-term value: 20 ppm  BEI, OTO, A4  108-10-1 4-methylpentan-2-one  PEL Long-term value: 410 mg/m³, 75 ppm  Long-term value: 205 mg/m³, 50 ppm  TLV Short-term value: 20 ppm  BEI, OTO, A4  108-94-1 cyclohexanone  PEL Long-term value: 20 mg/m³, 50 ppm  Long-term value: 20 ppm  BEI, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 200 mg/m³, 50 ppm  Long-term value: 200 mg/m³, 50 ppm  Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 200 mg/m³, 50 ppm  Long-term value: 200 mg/m³, 50 ppm	
PEL Long-term value: 1400 mg/m³, 400 ppm  REL Long-term value: 1400 mg/m³, 400 ppm  123-86-4 n-butyl acetate  PEL Long-term value: 710 mg/m³, 150 ppm  Short-term value: 950 mg/m³, 200 ppm Long-term value: 150 ppm  Short-term value: 150 ppm Long-term value: 50 ppm  TLV Short-term value: 50 ppm Long-term value: 50 ppm  Tong-term value: 50 ppm  ReL Long-term value: 590 mg/m³, 200 ppm Short-term value: 885 mg/m³, 300 ppm Long-term value: 990 mg/m³, 200 ppm  TLV Short-term value: 300 ppm Long-term value: 200 ppm BEI  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: 375 mg/m³, 100 ppm TLV Long-term value: 20 ppm BEI, OTO, A4  108-10-1 4-methylpentan-2-one  PEL Long-term value: 300 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm TLV Short-term value: 75 ppm Long-term value: 20 ppm BEI, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm  EL Long-term value: 200 mg/m³, 50 ppm  Long-term value: 200 mg/m³, 50 ppm  Long-term value: 200 mg/m³, 50 ppm  EL Long-term value: 200 mg/m³, 50 ppm  Long-term value: 200 mg/m³, 50 ppm  EL Long-term value: 200 mg/m³, 50 ppm  Long-term value: 200 mg/m³, 50 ppm	
REL Long-term value: 1400 mg/m³, 400 ppm  123-86-4 n-butyl acetate  PEL Long-term value: 710 mg/m³, 150 ppm  Short-term value: 950 mg/m³, 200 ppm Long-term value: 150 ppm Long-term value: 50 ppm Long-term value: 50 ppm Long-term value: 50 ppm Long-term value: 50 ppm Long-term value: 590 mg/m³, 200 ppm Long-term value: 590 mg/m³, 200 ppm RREL Long-term value: 885 mg/m³, 300 ppm Long-term value: 590 mg/m³, 200 ppm TLV Short-term value: 300 ppm Long-term value: 200 ppm BEI  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: 375 mg/m³, 100 ppm Long-term value: 20 ppm BEI, OTO, A4  108-10-1 4-methylpentan-2-one  PEL Long-term value: 300 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm TLV Short-term value: 75 ppm Long-term value: 20 ppm BEI, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm REL Long-term value: 200 mg/m³, 50 ppm Long-term value: 200 mg/m³, 50 ppm REL Long-term value: 200 mg/m³, 50 ppm	
TLV Long-term value: 400 ppm  123-86-4 n-butyl acetate  PEL Long-term value: 710 mg/m³, 150 ppm  REL Short-term value: 950 mg/m³, 200 ppm Long-term value: 150 ppm Long-term value: 50 ppm Long-term value: 50 ppm Long-term value: 590 mg/m³, 200 ppm REL Long-term value: 590 mg/m³, 200 ppm REL Short-term value: 885 mg/m³, 300 ppm Long-term value: 590 mg/m³, 200 ppm TLV Short-term value: 300 ppm Long-term value: 200 ppm BEI  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: 375 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm Long-term value: 20 ppm BEI, OTO, A4  108-10-1 4-methylpentan-2-one  PEL Long-term value: 410 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm TLV Short-term value: 75 ppm Long-term value: 20 ppm BEI, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm Long-term value: 200 mg/m³, 50 ppm Long-term value: 200 mg/m³, 50 ppm  EL Long-term value: 200 mg/m³, 50 ppm Long-term value: 200 mg/m³, 50 ppm EL Long-term value: 200 mg/m³, 50 ppm	
### PEL Long-term value: 710 mg/m³, 150 ppm    Short-term value: 950 mg/m³, 200 ppm	
PEL Long-term value: 710 mg/m³, 150 ppm REL Short-term value: 950 mg/m³, 200 ppm Long-term value: 150 ppm Long-term value: 50 ppm TLV Short-term value: 50 ppm Long-term value: 50 ppm  78-93-3 butanone PEL Long-term value: 885 mg/m³, 200 ppm REL Short-term value: 885 mg/m³, 300 ppm Long-term value: 590 mg/m³, 200 ppm TLV Short-term value: 300 ppm Long-term value: 200 ppm BEI  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: 3650 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm TLV Long-term value: 20 ppm BEI, OTO, A4  108-10-1 4-methylpentan-2-one PEL Long-term value: 300 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm TLV Short-term value: 20 ppm BEI, A3  108-94-1 cyclohexanone PEL Long-term value: 200 mg/m³, 50 ppm REL Long-term value: 200 mg/m³, 50 ppm	
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TLV Short-term value: 150 ppm Long-term value: 50 ppm  78-93-3 butanone  PEL Long-term value: 590 mg/m³, 200 ppm REL Short-term value: 885 mg/m³, 300 ppm Long-term value: 590 mg/m³, 200 ppm TLV Short-term value: 300 ppm Long-term value: 200 ppm BEl  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: 375 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm  TLV Long-term value: 20 ppm BEl, OTO, A4  108-10-1 4-methylpentan-2-one  PEL Short-term value: 410 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm  TLV Short-term value: 75 ppm Long-term value: 20 ppm BEl, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 200 mg/m³, 50 ppm	
Long-term value: 50 ppm	
78-93-3 butanone  PEL Long-term value: 590 mg/m³, 200 ppm  REL Short-term value: 885 mg/m³, 300 ppm Long-term value: 590 mg/m³, 200 ppm TLV Short-term value: 200 ppm BEI  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: 360 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm TLV Long-term value: 20 ppm BEI, OTO, A4  108-10-1 4-methylpentan-2-one  PEL Long-term value: 410 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm TLV Short-term value: 75 ppm Long-term value: 20 ppm BEI, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm REL Long-term value: 200 mg/m³, 50 ppm Long-term value: 200 mg/m³, 50 ppm	
PEL Long-term value: 590 mg/m³, 200 ppm  REL Short-term value: 885 mg/m³, 300 ppm Long-term value: 300 ppm Long-term value: 200 ppm BEI  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/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm  TLV Long-term value: 20 ppm BEI, OTO, A4  108-10-1 4-methylpentan-2-one  PEL Long-term value: 410 mg/m³, 100 ppm  REL Short-term value: 300 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm  TLV Short-term value: 75 ppm Long-term value: 20 ppm BEI, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 200 mg/m³, 50 ppm  Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 200 mg/m³, 50 ppm	
REL Short-term value: 885 mg/m³, 300 ppm Long-term value: 590 mg/m³, 200 ppm TLV Short-term value: 200 ppm BEI  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/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm  TLV Long-term value: 20 ppm BEI, OTO, A4  108-10-1 4-methylpentan-2-one  PEL Long-term value: 410 mg/m³, 100 ppm  REL Short-term value: 300 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm  TLV Short-term value: 75 ppm Long-term value: 20 ppm BEI, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 200 mg/m³, 50 ppm	
Long-term value: 590 mg/m³, 200 ppm  Short-term value: 300 ppm Long-term value: 200 ppm BEI  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/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm  TLV Long-term value: 20 ppm BEI, OTO, A4  108-10-1 4-methylpentan-2-one  PEL Long-term value: 410 mg/m³, 100 ppm  REL Short-term value: 300 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm  TLV Short-term value: 75 ppm Long-term value: 20 ppm BEI, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 200 mg/m³, 50 ppm  Long-term value: 100 mg/m³, 25 ppm	
TLV Short-term value: 300 ppm Long-term value: 200 ppm BEI  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/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm  TLV Long-term value: 20 ppm BEI, OTO, A4  108-10-1 4-methylpentan-2-one  PEL Long-term value: 410 mg/m³, 100 ppm  REL Short-term value: 300 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm  TLV Short-term value: 75 ppm Long-term value: 20 ppm BEI, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 200 mg/m³, 50 ppm  Long-term value: 100 mg/m³, 50 ppm	
Long-term value: 200 ppm BEI  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/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm  TLV Long-term value: 20 ppm BEI, OTO, A4  108-10-1 4-methylpentan-2-one  PEL Long-term value: 410 mg/m³, 100 ppm  REL Short-term value: 300 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm  TLV Short-term value: 75 ppm Long-term value: 20 ppm BEI, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 200 mg/m³, 50 ppm  Long-term value: 100 mg/m³, 50 ppm  REL Long-term value: 100 mg/m³, 25 ppm	
### 108-88-3 toluene    PEL	
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/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm  TLV Long-term value: 20 ppm BEI, OTO, A4  108-10-1 4-methylpentan-2-one  PEL Long-term value: 410 mg/m³, 100 ppm  REL Short-term value: 300 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm  TLV Short-term value: 75 ppm Long-term value: 20 ppm BEI, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 200 mg/m³, 50 ppm  Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 200 mg/m³, 50 ppm	
Ceiling limit value: 300; 500* ppm  *10-min peak per 8-hr shift  REL Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm  TLV Long-term value: 20 ppm BEI, OTO, A4  108-10-1 4-methylpentan-2-one  PEL Long-term value: 410 mg/m³, 100 ppm  REL Short-term value: 300 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm  TLV Short-term value: 75 ppm Long-term value: 20 ppm BEI, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 200 mg/m³, 50 ppm  Long-term value: 200 mg/m³, 50 ppm	
Ceiling limit value: 300; 500* ppm  *10-min peak per 8-hr shift  REL Short-term value: 560 mg/m³, 150 ppm  Long-term value: 375 mg/m³, 100 ppm  TLV Long-term value: 20 ppm  BEI, OTO, A4  108-10-1 4-methylpentan-2-one  PEL Long-term value: 410 mg/m³, 100 ppm  REL Short-term value: 300 mg/m³, 75 ppm  Long-term value: 205 mg/m³, 50 ppm  TLV Short-term value: 75 ppm  Long-term value: 20 ppm  BEI, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 200 mg/m³, 50 ppm  Long-term value: 200 mg/m³, 50 ppm	
REL Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm  TLV Long-term value: 20 ppm BEI, OTO, A4  108-10-1 4-methylpentan-2-one  PEL Long-term value: 410 mg/m³, 100 ppm  REL Short-term value: 300 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm  TLV Short-term value: 75 ppm Long-term value: 20 ppm BEI, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 200 mg/m³, 50 ppm	
Long-term value: 375 mg/m³, 100 ppm  Long-term value: 20 ppm BEI, OTO, A4  108-10-1 4-methylpentan-2-one  PEL Long-term value: 410 mg/m³, 100 ppm  REL Short-term value: 300 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm  TLV Short-term value: 75 ppm Long-term value: 20 ppm BEI, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 100 mg/m³, 25 ppm	
TLV Long-term value: 20 ppm BEI, OTO, A4  108-10-1 4-methylpentan-2-one  PEL Long-term value: 410 mg/m³, 100 ppm REL Short-term value: 300 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm  TLV Short-term value: 75 ppm Long-term value: 20 ppm BEI, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 100 mg/m³, 25 ppm	
BEI, OTO, A4  108-10-1 4-methylpentan-2-one  PEL Long-term value: 410 mg/m³, 100 ppm  REL Short-term value: 300 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm  TLV Short-term value: 75 ppm Long-term value: 20 ppm BEI, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 100 mg/m³, 25 ppm	
108-10-1 4-methylpentan-2-one  PEL Long-term value: 410 mg/m³, 100 ppm  REL Short-term value: 300 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm  TLV Short-term value: 75 ppm Long-term value: 20 ppm BEI, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 100 mg/m³, 25 ppm	
PEL Long-term value: 410 mg/m³, 100 ppm  REL Short-term value: 300 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm  TLV Short-term value: 75 ppm Long-term value: 20 ppm BEI, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 100 mg/m³, 25 ppm	
REL Short-term value: 300 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm TLV Short-term value: 75 ppm Long-term value: 20 ppm BEI, A3  108-94-1 cyclohexanone PEL Long-term value: 200 mg/m³, 50 ppm REL Long-term value: 100 mg/m³, 25 ppm	
Long-term value: 205 mg/m³, 50 ppm  TLV Short-term value: 75 ppm Long-term value: 20 ppm BEI, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 100 mg/m³, 25 ppm	
TLV Short-term value: 75 ppm Long-term value: 20 ppm BEI, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm REL Long-term value: 100 mg/m³, 25 ppm	
Long-term value: 20 ppm BEI, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 100 mg/m³, 25 ppm	
BEI, A3  108-94-1 cyclohexanone  PEL Long-term value: 200 mg/m³, 50 ppm  REL Long-term value: 100 mg/m³, 25 ppm	
PEL Long-term value: 200 mg/m³, 50 ppm REL Long-term value: 100 mg/m³, 25 ppm	
REL Long-term value: 100 mg/m³, 25 ppm	
TLV Short-term value: 50 ppm	
Long-term value: 20 ppm Skin, BEI, A3	



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aue na	Mile: PUTOF-C WHITE 255H
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	3-0 propan-2-ol
PEL	3 , 11
REL	Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm
TLV	Short-term value: 400 ppm Long-term value: 200 ppm
	BEI, A4
108-	65-6 2-methoxy-1-methylethyl acetate
WEE	EL Long-term value: 50 ppm
64-1	7-5 ethanol
PEL	Long-term value: 1900 mg/m³, 1000 ppm
REL	
TLV	3 , 11
72	A3
	· Ingredients with biological limit values:
1330	0-20-7 xylene
	•
	1.5 g/g creatinine Medium: urine
	Time: end of shift
	Parameter: Methylhippuric acids
	41-4 ethylbenzene
	0.15 g/g creatinine
	Medium: urine
	Time: end of shift at end of workweek
	Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)
78-9	3-3 butanone
BEI	2 mg/L
	Medium: urine
	Time: end of shift
	Parameter: Methyl ethyl ketone (nonspecific)
	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
	1 mg/L
	Medium: urine
	Time: end of shift
	Parameter: MIBK



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PU TOP-C WHITE 25SH Trade name:

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## 108-94-1 cyclohexanone

## BEI 80 ma/L

Medium: urine

Time: end of shift at end of workweek

Parameter: 1.2-Cyclohexanediol (with hydrolysis, nonspecific, nonquantitative)

8 mg/L

Medium: urine Time: end of shift

Parameter: Cyclohexanol (with hydrolysis, nonspecific, nonquantitative)

#### 67-63-0 propan-2-ol

BEI 40 mg/L

Medium: urine

Time: end of shift at end of workweek

Parameter: Acetone (background, nonspecific)

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

#### · Exposure controls

- · Personal protective equipment:
  - · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Pregnant women should strictly avoid inhalation or skin contact.

Breathing equipment:

Short term filter device:



Suitable respiratory protective device recommended.

#### Filter A

· Protection of hands:



Protective gloves

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

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

#### · Material of gloves

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

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection:



Tightly sealed goggles

Physical and chemical proper	rties		
Information on basic physical and chemical properties			
· General Information			
· Appearance:			
· Form:	Fluid		
· Color:	According to product specification		
· Odor:	Characteristic		
· Odor threshold:	Not determined.		
· pH-value:	Mixture is non-polar/aprotic.		
· Change in condition			
· Melting point/Melting range:	Undetermined.		
· Boiling point/Boiling range:	77 °C (170.6 °F)		
· Flash point:	-4 °C (24.8 °F)		
· Flammability (solid, gaseous):	Not applicable.		
· Ignition temperature:	370 °C (698 °F)		
· Decomposition temperature:	Not determined.		
· Auto igniting:	Product is not selfigniting.		
· Danger of explosion:	Product is not explosive. However, formation of explosi- air/vapor mixtures are possible.		
· Explosion limits:			
· Lower:	1 Vol %		
· Upper:	11.5 Vol %		
· Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)		
· Density (+/- 0,03) at 20 °C (68 °F):	1.293 g/cm³ (10.79 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):	101 s (ISO 6 mm)		
· Oxidising properties:	N.A.		
· Solvent content:			
· Water:	0.0 %		
· VOC content:	34.80 %		
	450.0 g/l / 3.76 lb/gal		



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· Solid	s content: 64.8 %	
· Other info	rmation (HAPS)	
1330-20-7	xylene	15-19.99%
100-41-4	ethylbenzene	2.5-4.99%
108-88-3	toluene	0.5-1%
108-10-1	4-methylpentan-2-one	≥0.1-<0.5%
· Other in	formation No further rel	evant 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)		
Dermal	LD50	7,148 mg/kg (rabbit)
Inhalative	LC50/4 h	62.1 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)
110-19-0 i	sobutyl a	cetate
Oral	LD50	13,400 mg/kg (mouse)
Dermal	LD50	17,401 mg/kg (rabbit)
Inhalative	LC50/4 h	31 mg/l (mouse)
100-41-4 ethylbenzene		
Oral	LD50	3,500 mg/kg (mouse)
Dermal	LD50	15,486 mg/kg (rabbit)
Inhalative	LC50/4 h	17.2 mg/l (mouse)
		(Contd. on page

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141-78-6			
Oral	LD50	4,934 mg/kg (rabbit)	
Dermal	LD50	20,001 mg/kg (rabbit)	
Inhalative		1,600 mg/l (mouse)	
400.00.4	LC0	22.6 ppm (mouse)	
123-86-4 1			
Oral	LD50	10,760 mg/kg (mouse)	
Dermal	LD50	14,000 mg/kg (rabbit)	
Inhalative		21.1 mg/l (mouse)	
78-93-3 bi			
Oral	LD50	2,001 mg/kg (mouse)	
Dermal	LD50	5,001 mg/kg (rabbit)	
Inhalative	LC50/4 h	21 mg/l (mouse)	
108-88-3 1	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-methylp	entan-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)	
108-94-1	cyclohexa	none	
Oral	LD50	1,890 mg/kg (mouse)	
Dermal	LD50	1,100 mg/kg (rabbit)	
Inhalative	LC50/4 h	6.3 mg/l (mouse)	
67-63-0 pi	ropan-2-o	<u> </u>	
Oral	LD50	4,710 mg/kg (mouse)	
Dermal	LD50	12,800 mg/kg (rabbit)	
Inhalative	LC50/4 h	72.6 mg/l (mouse)	
		-1-methylethyl acetate	
	LD50	8,532 mg/kg (mouse)	
Dermal	LD50	5,001 mg/kg (rabbit)	
Inhalative		35.7 mg/l (mouse)	
64-17-5 et		J. (/	
Oral	LD50	10,470 mg/kg (mouse)	
Dermal	LD50	20,000 mg/kg (rabbit)	
Inhalative		124.7 mg/l (mouse)	
		etrimethanol	
Oral	LD50	14,700 mg/kg (mouse)	
		,	

- · 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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#### · Additional toxicological information:

Irritant

Causes skin irritation.

Causes serious eve irritation.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Oral, Inhalation.

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.

Γ	· IARC (International Agency for Research on Cancer - Cl. 1 and 2)					
Ī	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 in alcoholic beverages			

#### · 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 t	oxicity:		
1330-20-7 x	ylene		
EC50	2.2 mg/l (algae)		
LC50 48h	1 mg/l (daphnia)		
	2.6 mg/l (Fish)		
110-19-0 is	110-19-0 isobutyl acetate		
EC50	370 mg/l (algae) (72 h)		
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	(Contd. of
	25 mg/l (daphnia)
	17 mg/l (Fish)
100-41-4 eth	
EC50	438 mg/l (algae) (72h)
	1.8 mg/l (daphnia) (48 h)
LC50 (96h)	12.1 mg/l (Fish)
141-78-6 eth	nyl acetate
EC50	165 mg/l (daphnia) (48 h)
LC50 (96h)	230 mg/l (Fish)
123-86-4 n-l	butyl acetate
EC50	397 mg/l (algae) (72 h)
	44 mg/l (daphnia) (48 h)
LC50 (96h)	18 mg/l (Fish)
78-93-3 buta	
	2,029 mg/l (algae) (96 h)
	308 mg/l (daphnia) (48 h)
	2,993 mg/l (Fish)
108-88-3 tol	
	134 mg/l (algae) (96 h)
1	3.78 mg/l (daphnia) (48 h)
	5.5 mg/l (Fish)
	methylpentan-2-one
	201 mg/l (daphnia) (48 h)
	180 mg/l (Fish)
	clohexanone
	101 mg/l (algae) (72 h)
	101 mg/l (daphnia)
	527 mg/l (Fish)
67-63-0 proj	
	1,001 mg/l (algae) (72 h)
	10,000 mg/l (daphnia) (24 h)
	9,640 mg/l (Fish)
, ,	methoxy-1-methylethyl acetate
	1,001 mg/l (algae) (72 h)
1	501 mg/l (daphnia) (48 h)
	134 mg/l (Fish)
64-17-5 etha	- , ,
	5,012 mg/l (daphnia) (48 h)
1	15.3 mg/l (Fish)
, ,	pylidynetrimethanol
	1,001 mg/l (algae) (72h)
	13,000 mg/l (daphnia) (48h)
	1,001 mg/l (Fish)



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· Substances Easily biodegradable		
1330-20-7	xylene	
110-19-0	isobutyl acetate	
100-41-4	ethylbenzene	
141-78-6	ethyl acetate	
123-86-4	n-butyl acetate	
78-93-3	butanone	
108-88-3	toluene	

#### · 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.

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
· IMDG, IATA PAINT

### · Transport hazard class(es)

 $\cdot DOT$ 



Class 3 Flammable liquids

· Label

· Class 3 Flammable liquids

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3

3

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· Label

· IMDG, IATA



· Class 3 Flammable liquids

· Label

· Packing group

· DOT, IMDG, IATA

· Environmental hazards:

· Marine pollutant: No

· Special precautions for user Warning: Flammable liquids

· Hazard identification number (Kemler code):

· EMS Number: F-E,S-E · Stowage Category A

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

 $\cdot DOT$ 

• Remarks: > 450 l: 3 F1, ||

· IMDG

· Limited quantities (LQ) 5L

· Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30

ml

Maximum net quantity per outer packaging:

1000 ml

• Remarks: > 450 |: 3. ||

 $\cdot$  IATA

• Remarks: > 30 l: 3, ll

· UN "Model Regulation": UN 1263 PAINT, 3, III

## 15 Regulatory information

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

Requirements of Federal Register

- · Various regulations
  - · SARA

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

1330-20-7 xylene 15-19.99% 100-41-4 ethylbenzene 2.5-4.99%

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		(Contd. of page 16)	
108-88-3	toluene	0.5-1%	
108-10-1	4-methylpentan-2-one	≥0.1-<0.5%	
67-63-0	propan-2-ol	<0.5%	
· 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		
Duan	ocition 65		

#### · 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	25-29.99%
100-41-4	ethylbenzene	*	2.5-4.99%
108-10-1	4-methylpentan-2-one	*	≥0.1-<0.5%

## · 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	0.5-1%
108-10-1	4-methylpentan-2-one	≥ <i>0.1-</i> < <i>0.5</i> %

## · Carcinogenic categories

· EPA (Environmental Protection Agency)			
1330-20-7	xylene	1	15-19.99%
100-41-4	ethylbenzene	D	2.5-4.99%
78-93-3	butanone	1	0.5-1%
108-88-3	toluene	11	0.5-1%
108-10-1	4-methylpentan-2-one	1	≥0.1-<0.5%

· TL	.V (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		A4
108-94-1	cyclohexanone	A3
	propan-2-ol	A4
64-17-5	ethanol	A3

NIOSH-Ca (National Institute for Occupational Safety and Health)	
13463-67-7 Titanium dioxide C.I. 77891 Pigment white 6	25-29.99%

### · National regulations:

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

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· 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 08/15/2022 / 102
  - · Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flammable Liquids 2: Flammable liquids - Category 2

Flammable Liquids 3: Flammable liquids - Category 3

Acute Toxicity - Dermal 4: Acute toxicity - Category 4 Skin Irrititation 2: Skin corrosion/irritation - Category 2

Eye Damage 1: Serious eye damage/eye irritation - Category 1

Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A

Carcinogenicity 2: Carcinogenicity - Category 2

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

Aguatic 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.