ivm Chemicals

Printing date 09/06/2022

Safety Data Sheet acc. to OSHA HCS

Version number 586

Reviewed on 09/06/2022

1 Identification

- · Product identifier
 - · Product number KKR1
 - Trade name: PU WHITE CONVERTER 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	
Flammable Liquids 2	H225 Highly flammable liquid and vapor.
Skin Irrititation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Carcinogenicity 2	H351 Suspected of causing cancer.
Toxic to Reproduction 2	H361 Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity - Repeated Expos 2	ure H373 May cause damage to the hearing organs through prolonged or repeated exposure.

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



· 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.

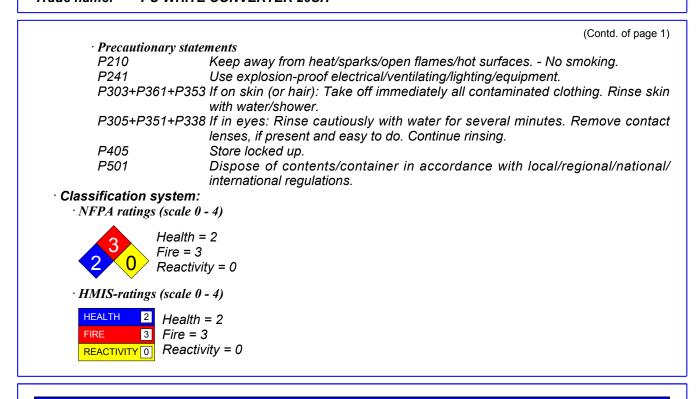
- H361 Suspected of damaging fertility or the unborn child.
- H373 May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Oral, Inhalation.

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3 Composition/information on ingredients

[•] Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

1330-20-7	xylene	12.5-15%
	 Flammable Liquids 3, H226 Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304 Acute Toxicity - Dermal 4, H312; Acute Toxicity - Inhalation 4, H332; Skin Irrititation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335 Aquatic Acute 3, H402; Aquatic Chronic 3, H412 	
110-19-0	isobutyl acetate Flammable Liquids 2, H225 Specific Target Organ Toxicity - Single Exposure 3, H336	10-12.49%
141-78-6	ethyl acetate Flammable Liquids 2, H225 Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	2.5-4.99%
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%



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123-86-1	n-butyl acetate	Contd. of page 2 1-2.49%
123-00-4	 Flammable Liquids 3, H226 Specific Target Organ Toxicity - Single Exposure 3, H336 	1-2.4970
78-93-3	 93-3 butanone Flammable Liquids 2, H225 Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336 	
64-17-5	ethanol Flammable Liquids 2, H225 Eye Irritation 2A, H319	<0.5%
108-88-3	 toluene Flammable Liquids 2, H225 Toxic to Reproduction 2, H361; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304 Skin Irrititation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H336 Aquatic Chronic 3, H412 	≥0.1-<0.5%
108-10-1	 4-methylpentan-2-one Flammable Liquids 2, H225 Carcinogenicity 2, H351 Acute Toxicity - Inhalation 4, H332; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335 	<i>≥</i> 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%
108-65-6	2-methoxy-1-methylethyl acetate Flammable Liquids 3, H226 Specific Target Organ Toxicity - Single Exposure 3, H336	<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%
77-99-6	propylidynetrimethanol line to Reproduction 2, H361	<i>≥</i> 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. (Contd. on page 4)

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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).
 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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	Action Criteria for Chemicals	
• PAC-1:		
	Titanium dioxide C.I. 77891 Pigment white 6	30 mg/r
1330-20-7	-	130 ppr
	isobutyl acetate	450 ppr
	silicon dioxide, chemically prepared	18 mg/r
	ethyl acetate	1,200 p
	ethylbenzene	33 ppm
	n-butyl acetate	5 ppm
78-93-3	butanone	200 ppr
64-17-5	ethanol	1,800 p
108-88-3	toluene	67 ppm
9002-88-4	Polyethylene low density	16 mg/r
108-10-1	4-methylpentan-2-one	75 ppm
108-94-1	cyclohexanone	60 ppm
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
67-63-0	propan-2-ol	400 ppr
· PAC-2:	1	
13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	330 mg
1330-20-7	xylene	920* pp
110-19-0	isobutyl acetate	1300* p
7631-86-9	silicon dioxide, chemically prepared	740 mg
141-78-6	ethyl acetate	1,700 p
100-41-4	ethylbenzene	1100* p
123-86-4	n-butyl acetate	200 ppr
78-93-3	butanone	2700* p
64-17-5	ethanol	3300* p
108-88-3	toluene	560 ppr
9002-88-4	Polyethylene low density	170 mg/
108-10-1	4-methylpentan-2-one	500 ppr
108-94-1	cyclohexanone	830 ppr
108-65-6	2-methoxy-1-methylethyl acetate	1,000 p
67-63-0	propan-2-ol	2000* p
· PAC-3:		I
	Titanium dioxide C.I. 77891 Pigment white 6	2,000 mg/
1330-20-7	C C	2500* ppr
	-	
	-	
	ethyl acetate	4,500 mg/ 10000** p
	ethylbenzene	1800* pp
	n-butyl acetate	3000* ppr

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		(Contd. of page 5)
	butanone	4000* ppm
64-17-5		15000* ppm
108-88-3	toluene	3700* ppm
9002-88-4	Polyethylene low density	1,000 mg/m ³
108-10-1	4-methylpentan-2-one	3000* ppm
108-94-1	cyclohexanone	5000* ppm
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
67-63-0	propan-2-ol	12000** 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. 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.

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4000	20.7	(Contd. of pa
	20-7 xylene	
PEL	Long-term value: 435 mg/m ³ , 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	
141-78	8-6 ethyl acetate	
PEL	Long-term value: 1400 mg/m³, 400 ppm	
REL	Long-term value: 1400 mg/m³, 400 ppm	
TLV	Long-term value: 400 ppm	
100-4	1-4 ethylbenzene	
PEL	Long-term value: 435 mg/m³, 100 ppm	
REL	Short-term value: 545 mg/m³, 125 ppm Long-term value: 435 mg/m³, 100 ppm	
TLV	Long-term value: 20 NIC-20 ppm BEI, A3, NIC: OTO, BEI, A3	
123-8	6-4 n-butyl acetate	
PEL	Long-term value: 710 mg/m³, 150 ppm	
REL	Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm	
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 BEI	
64-17-	-5 ethanol	
PEL	Long-term value: 1900 mg/m³, 1000 ppm	
REL	Long-term value: 1900 mg/m³, 1000 ppm	
TLV	Short-term value: 1000 ppm A3	
108-8	8-3 toluene	
PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift	
		(Contd. on pa



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REL	Short-term value: 560 mg/m³, 150 ppm	(Contd. of pa
NLL	Long-term value: 375 mg/m ³ , 100 ppm	
TLV	Long-term value: 20 ppm BEI, OTO, A4	
108-10	0-1 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	4-1 cyclohexanone	
PEL	Long-term value: 200 mg/m³, 50 ppm	
REL	Long-term value: 100 mg/m³, 25 ppm Skin	
TLV	Short-term value: 50 ppm Long-term value: 20 ppm Skin, BEI, A3	
108-6	5-6 2-methoxy-1-methylethyl acetate	
WEEL	Long-term value: 50 ppm	
67-63-	0 propan-2-ol	
PEL	Long-term value: 980 mg/m³, 400 ppm	
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	
	· Ingredients with biological limit values:	
1330-2	20-7 xylene	
N T	.5 g/g creatinine ledium: urine ime: end of shift arameter: Methylhippuric acids	
100-4	1-4 ethylbenzene	
BEI 0 N T	.15 g/g creatinine ledium: urine ime: end of shift at end of workweek arameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)	
	3 butanone	
Т	mg/L ledium: urine ime: end of shift arameter: Methyl ethyl ketone (nonspecific)	
		(Contd. on pa

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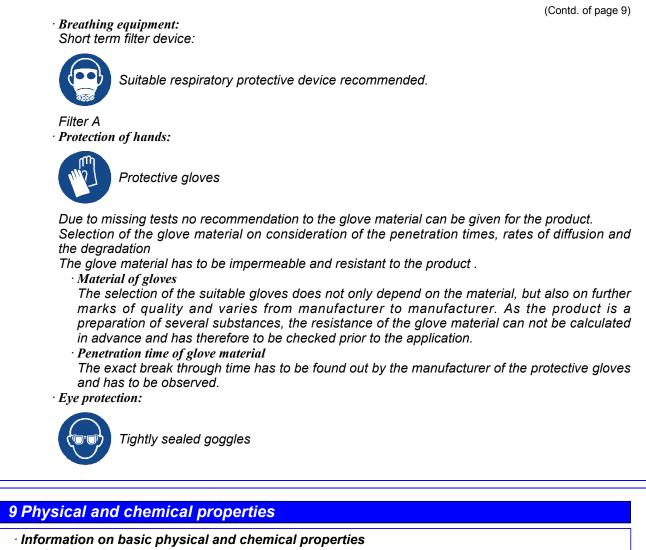
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108-	88-3 toluene	(Contd. of pa
	0.02 mg/L	
ושט	Medium: blood	
	Time: prior to last shift of workweek	
	Parameter: Toluene	
	0.03 mg/L	
	Medium: urine	
	Time: end of shift	
	Parameter: Toluene	
	0.3 mg/g creatinine	
	Medium: urine	
	Time: end of shift	
	Parameter: o-Cresol with hydrolysis (background)	
108-	10-1 4-methylpentan-2-one	
	1 mg/L	
	Medium: urine	
	Time: end of shift	
	Parameter: MIBK	
108-	94-1 cyclohexanone	
BEI	80 mg/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)	
67-6	3-0 propan-2-ol	
	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 a	as basis.
Exp	osure 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.	
		(Contd. on page

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· 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.	
		(Contd. on page



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			(Contd. of page 10
[.] Ignition	temperature:	370 °C (698 °F)	
· Deco	omposition temperature:	Not determined.	
· Auto igr	niting:	Product is not selfigniting.	
· Danger	of explosion:	Product is not explosive. However, formation o vapor mixtures are possible.	f explosive air/
· Explosie	on limits:		
·Low		1 Vol %	
· Uppe	er:	11.5 Vol %	
· Vapor p	ressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)	
· Density	(+/- 0,03) at 20 °C (68 °F):	1.3 g/cm³ (10.849 lbs/gal)	
· Rela	tive density	Not determined.	
	or density	Not determined.	
· Evap	ooration rate	Not determined.	
	ty in / Miscibility with		
· Wate	er:	Not miscible or difficult to mix.	
· Partition	n coefficient (n-octanol/water): Not determined.	
· Viscosit	v:		
· Dyne		Not determined.	
	matic at 20 °C (68 °F):	55 s (ISO 6 mm)	
· Oxidisin	ng properties:	N.A.	
· Solvent	content:		
· Wate		0.0 %	
• VOC	C content:	34.71 %	
		451.2 g/l / 3.77 lb/gal	
· Solid	ls content:	65.3 %	
	rmation (HAPS)		
1330-20-7	•		12.5-15%
	ethylbenzene		2.5-4.99%
108-88-3			≥0.1-<0.5%
	4-methylpentan-2-one		≥0.1-<0.5%
· Other in	formation	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.

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• *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

· LD/	LC50 value	es that are relevant for classification:
ATE (Acu	te Toxicit	y Estimate)
Dermal	LD50	8,529 mg/kg (rabbit)
Inhalative	LC50/4 h	74.1 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)
141-78-6	ethyl aceta	ate
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)
100-41-4 (ethylbenz	ene
Oral	LD50	3,500 mg/kg (mouse)
Dermal	LD50	15,486 mg/kg (rabbit)
Inhalative	LC50/4 h	17.2 mg/l (mouse)
123-86-4 I	n-butyl ac	etate
Oral	LD50	10,760 mg/kg (mouse)
Dermal	LD50	14,000 mg/kg (rabbit)
Inhalative	LC50/4 h	21.1 mg/l (mouse)
78-93-3 bi	utanone	
Oral	LD50	2,001 mg/kg (mouse)
Dermal	LD50	5,001 mg/kg (rabbit)
Inhalative	LC50/4 h	21 mg/l (mouse)





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64-17-5 et	thanol	(Contd. of page 1
Oral	LD50	10,470 mg/kg (mouse)
Dermal	LD50	20,000 mg/kg (rabbit)
		124.7 mg/l (mouse)
108-88-3		
Oral	LD50	5,000 mg/kg (mouse)
Dermal	LD50	12,124 mg/kg (rabbit)
		25.7 mg/l (mouse)
		entan-2-one
Oral	LD50	2,080 mg/kg (mouse)
Dermal	LD50	16,000 mg/kg (rab)
		16.6 mg/l (mouse)
	cyclohexa	
Oral	LD50	1,890 mg/kg (mouse)
Dermal	LD50	1,100 mg/kg (rabbit)
		6.3 mg/l (mouse)
		-1-methylethyl acetate
Oral	LD50	8,532 mg/kg (mouse)
Dermal	LD50 LD50	5,001 mg/kg (rabbit)
		35.7 mg/l (mouse)
	ropan-2-0	
Oral	LD50	4,710 mg/kg (mouse)
Dermal	LD50 LD50	12,800 mg/kg (rabbit)
		72.6 mg/l (mouse)
		etrimethanol
Oral	LD50	14,700 mg/kg (mouse)
Dermal	LD50 LD50	10,001 mg/kg (mouse)
· c · c · Sen	on the eye: sitization: N	<i>t effect: Irritant to skin and mucous membranes. Irritating effect. No sensitizing effects known. ogical information:</i>
Causes Causes Suspec	cted of cau	tion. ye irritation. sing cancer. naging fertility or the unborn child.
May ca exposi	ause dam ıre: Oral, Iı	age to the hearing organs through prolonged or repeated exposure. Route
Tita IAR rats	exposed	



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(Contd. of page 13) 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.

	RC (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
64-17-5	ethanol	1 in alcoholic beverages
108-10-1	4-methylpentan-2-one	2B
· 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

· To	cicity

· Aquatic t	oxicity:
1330-20-7 x	rylene
EC50	2.2 mg/l (algae)
LC50 48h	1 mg/l (daphnia)
LC50 (96h)	2.6 mg/l (Fish)
110-19-0 is	obutyl acetate
EC50	370 mg/l (algae) (72 h)
	25 mg/l (daphnia)
LC50 (96h)	17 mg/l (Fish)
141-78-6 et	hyl acetate
EC50	165 mg/l (daphnia) (48 h)
LC50 (96h)	230 mg/l (Fish)
100-41-4 et	hylbenzene
EC50	438 mg/l (algae) (72h)
	1.8 mg/l (daphnia) (48 h)
LC50 (96h)	12.1 mg/l (Fish)
	(Contd. on page 1

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123-86-4 n-	butyl acetate (Contd. of pa	age
EC50	397 mg/l (algae) (72 h)	
2000	44 mg/l (daphnia) (48 h)	
I C50 (96h)	18 mg/l (Fish)	
78-93-3 but		
EC50	2,029 mg/l (algae) (96 h)	
2000	308 mg/l (daphnia) (48 h)	
LC50 (96h)	2,993 mg/l (Fish)	
64-17-5 eth		
EC50	5,012 mg/l (daphnia) (48 h)	
	15.3 mg/l (Fish)	
108-88-3 to		
EC50	134 mg/l (algae) (96 h)	
	3.78 mg/l (daphnia) (48 h)	
LC50 (96h)	5.5 mg/l (Fish)	
	methylpentan-2-one	
EC50	201 mg/l (daphnia) (48 h)	
LC50 (96h)	180 mg/l (Fish)	
108-94-1 су	vclohexanone	
EC50	101 mg/l (algae) (72 h)	
	101 mg/l (daphnia)	
LC50 (96h)	527 mg/l (Fish)	
108-65-6 2-	methoxy-1-methylethyl acetate	_
EC50	1,001 mg/l (algae) (72 h)	
	501 mg/l (daphnia) (48 h)	
LC50 (96h)	134 mg/l (Fish)	
67-63-0 pro	pan-2-ol	
EC50	1,001 mg/l (algae) (72 h)	
	10,000 mg/l (daphnia) (24 h)	
LC50 (96h)	9,640 mg/l (Fish)	
77-99-6 pro	pylidynetrimethanol	
EC50	1,001 mg/l (algae) (72h)	
	13,000 mg/l (daphnia) (48h)	
LC50 (96h)	1,001 mg/l (Fish)	
	e and degradability No further relevant information available.	
	es Easily biodegradable	
1330-20-7		
	isobutyl acetate .	
	ethyl acetate .	
	ethylbenzene .	
123-86-4	n-butyl acetate	

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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:

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Chemicals

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.

UN-Number	
· DOT, IMDG, IATA	UN1263
·Note	Check viscosity and flash point at section 9
UN proper shipping name	
DOT	Paint
· IMDG, IATA	PAINT
Transport hazard class(es)	
·DOT	
PLANMAREL LUDIO	
· Class	3 Flammable liquids
· Label	3
· Class	3 Flammable liquids
	3



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· UN "Model Regulation":	UN 1263 PAINT, 3, III
· IATA · Remarks:	> 30 I: 3, II
[·] Remarks:	> 450 : 3,
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml > 450 l: 2, ll
· DOT · Remarks:	> 450 I: 3 F1, II
· Transport/Additional information:	
 Transport in bulk according to Anno MARPOL73/78 and the IBC Code 	ex II of Not applicable.
• EMS Number: • Stowage Category	F-E, <u>S-E</u> A
• Special precautions for user • Hazard identification number (Ke	Warning: Flammable liquids mler code): -
• Environmental hazards: • Marine pollutant:	No
• Packing group • DOT, IMDG, IATA	III
· Label	3
· Class	3 Flammable liquids
· IMDG, IATA	
	(Contd. of page 1)

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture . • Various regulations

· SARA

· S	ection 355 (extremely hazardous substances):	
None of the	e ingredients is listed.	
· S	ection 313 (Specific toxic chemical listings) :	
1330-20-7	xylene	12.5-15%
100-41-4	ethylbenzene	2.5-4.99%
108-88-3	toluene	≥0.1-<0.5%
		(Contd. on page 18)



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		(C	ontd. of page 1
	4-methylpentan-2-one		<i>≥</i> 0.1-<0.5%
67-63-0	propan-2-ol		<0.5%
· TSC.	4 (Toxic Substances Control Act):		
All compon	ents have the value ACTIVE.		
· H	azardous Air Pollutants		
1330-20-7	xylene		
100-41-4	ethylbenzene		
108-88-3	toluene		
108-10-1	4-methylpentan-2-one		
- C T	osition 65 hemicals known to cause cancer: itanium dioxide only in bound form		
	7 Titanium dioxide C.I. 77891 Pigment white 6	only for Dust	
	t ethylbenzene	*	2.5-4.99%
108-10-1	4-methylpentan-2-one	*	<i>≥</i> 0.1-<0.5%
· C	hemicals known to cause reproductive toxicity for females:		
None of the	e ingredients is listed.		
· C	hemicals known to cause reproductive toxicity for males:		
None of the	e ingredients is listed.		
· C	hemicals known to cause developmental toxicity:		
108-88-3 t	oluene		<i>≥</i> 0.1-<0.5%
108-10-1 4			<i>≥</i> 0.1-<0.5%
· Carc	inogenic categories		
· E	PA (Environmental Protection Agency)		
1330-20-7	xylene	1	12.5-15%
100-41-4	ethylbenzene	D	2.5-4.99%
78-93-3	butanone	1	<0.5%
108-88-3	toluene		<i>≥</i> 0.1-<0.5%
108-10-1	4-methylpentan-2-one	1	<i>≥</i> 0.1-<0.5%
· 7	LV (Threshold Limit Value)	•	
13463-67-7	7 Titanium dioxide C.I. 77891 Pigment white 6		A4
1330-20-7	7 xylene		A4
	t ethylbenzene		A3
	5 ethanol		A3
	3 toluene		A
	l cyclohexanone		A3
67-63-0	propan-2-ol		A4
· N	IOSH-Ca (National Institute for Occupational Safety and Health))	
13463-67-7	7 Titanium dioxide C.I. 77891 Pigment white 6		25-29.99%
		(Co	ontd. on page 1

Safety Data Sheet acc. to OSHA HCS

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

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: IVM Chemicals Srl · Contact: See emergency phone · Date of preparation / last revision 09/06/2022 / 585 · 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 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.