

Printing date 10/16/2020

Version number 23

Reviewed on 10/07/2020

1 Identification

- · Product identifier
 - · Product number PLM5937
 - Trade name: PU TOP-C BLACK
 - \cdot 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

GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

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.

GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.

GHS07

Skin Irrit. 2 H315 Causes skin irritation. STOT SE 3 H336 May cause drowsiness or dizziness.

· Label elements

· GHS label elements

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



· Signal word Danger

(Contd. on page 2)

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141-78-6 ethyl acetate

Flam. Liq. 2, H225
 Eye Irrit. 2A, H319; STOT SE 3, H336

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		(Contd. of page 1)
· Hazard-determinin	g components of labeling:	
2-methylpropan-1	-ol	
xylene		
ethylbenzene		
ethyl acetate		
· Hazard statements	mable liquid and vener	
H315 Causes skir	nable liquid and vapor.	
H318 Causes skill		
H351 Suspected of		
	of damaging fertility or the unborn child.	
	drowsiness or dizziness.	
	damage to the central nervous system and the hearing or	gans through
	r repeated exposure. Route of exposure: Oral and Inhalation.	0 0
· Precautionary state	ements	
P210	Keep away from heat/sparks/open flames/hot surfaces No	
P303+P361+P353	3 If on skin (or hair): Take off immediately all contaminated c	lothing. Rinse
	skin with water/shower.	
P305+P351+P338	B If in eyes: Rinse cautiously with water for several minu	ites. Remove
P310	contact lenses, if present and easy to do. Continue rinsing.	
P310	Immediately call a poison center/doctor. Specific treatment (see on this label).	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local/regi	ional/national/
	international regulations.	
· Classification system:	C C	
· NFPA ratings (scale 0	- 4)	
Health =	- 3	
3 Fire = 3		
3 0 Reactive		
▼ ∨		
· HMIS-ratings (scale 0	- 4)	
HEALTH 3 Health	= *3	
FIRE 3 Fire =		
REACTIVITY 0 Reactiv		
	,	
2 Composition/infor	mation on ingredients	
3 Composition/mon	nation on ingredients	
· Chemical characteriza	tion: Mixtures	
· Description: Mixture:	consisting of the following components.	
· Dangerous component	Ś:	
1330-20-7 xylene		12.5-15%
Flam. Liq	3. H226	
	E 2, H373; Asp. Tox. 1, H304	
	x. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit.	
2A, H319	; STOT SE 3, H335	
Aquatic Chro	onic 3, H412	

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10-12.49%



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123-86-4	n-butyl acetate	(Contd. of page 2 5-9.99%
120 00 1	 Flam. Liq. 3, H226 STOT SE 3, H336 	0 0.0070
110-19-0	isobutyl acetate	5-9.99%
	 Flam. Liq. 2, H225 STOT SE 3, H336 	
108-65-6	2-methoxy-1-methylethyl acetate	2.5-4.99%
	 Flam. Liq. 3, H226 STOT SE 3, H336 	
100-41-4	ethylbenzene	2.5-4.99%
	 Flam. Liq. 2, H225 Carc. 2, H351; STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H332 Aquatic Chronic 3, H412 	
763-69-9	ethyl 3-ethoxypropionate	2.5-4.99%
	🚸 Flam. Liq. 3, H226	
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%
108-88-3	toluene	1-2.49%
	 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 	
71-36-3	butan-1-ol	1-2.49%
	 Flam. Liq. 3, H226 Eye Dam. 1, H318 Eye Dam. 1, H318 	
	Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	
333-86-4	Carbon black	0.5-1%
108-10-1	4-methylpentan-2-one	≥0.1-<0.5%
	 Flam. Liq. 2, H225 Carc. 2, H351 	
	🚯 Acute Tox. 4, H332; Eye Irrit. 2A, H319; STOT SE 3, H335	

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.

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- 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.
- \cdot 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, s Use neutralizing agent. Dispose contaminated material as waste according to Section 13. Ensure adequate ventilation. Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicals 	
· PAC-1: 1330-20-7 xylene	130 ppm
·	130 ppm
141-78-6 ethyl acetate	1,200 ppm
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123-86-4	n-butyl acetate	(Contd. of pag 5 ppm	
110-19-0	isobutyl acetate	450 ppm	
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm	
7631-86-9	silicon dioxide, chemically prepared	18 mg/m	
100-41-4	ethylbenzene	33 ppm	
763-69-9	ethyl 3-ethoxypropionate	1.6 ppm	
78-83-1	2-methylpropan-1-ol	150 ppm	
108-88-3	toluene	67 ppm	
71-36-3	butan-1-ol	60 ppm	
1333-86-4	Carbon black	9 mg/m ³	
9002-88-4	Polyethylene low density	16 mg/m	
9003-07-0	polypropylene	5.2 mg/m	
108-10-1	4-methylpentan-2-one	75 ppm	
· PAC-2:			
1330-20-7	•	920* ppm	
141-78-6	ethyl acetate	1,700 ppi	
123-86-4	n-butyl acetate	200 ppm	
110-19-0	isobutyl acetate	1300* pp	
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppi	
7631-86-9	silicon dioxide, chemically prepared	740 mg/n	
100-41-4	ethylbenzene	1100* pp	
763-69-9	ethyl 3-ethoxypropionate	18 ppm	
78-83-1	2-methylpropan-1-ol	1,300 ppi	
108-88-3	toluene	560 ppm	
71-36-3	butan-1-ol	800 ppm	
1333-86-4	Carbon black	99 mg/m ³	
9002-88-4	Polyethylene low density	170 mg/n	
9003-07-0	polypropylene	58 mg/m ³	
108-10-1	4-methylpentan-2-one	500 ppm	
· PAC-3:		· · · · · · · · · · · · · · · · · · ·	
1330-20-7	xylene	2500* ppm	
141-78-6	ethyl acetate	10000** pp	
123-86-4	n-butyl acetate	3000* ppm	
110-19-0	isobutyl acetate	7500** ppm	
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm	
7631-86-9	silicon dioxide, chemically prepared	4,500 mg/n	
100-41-4	ethylbenzene	1800* ppm	
763-69-9	ethyl 3-ethoxypropionate	110 ppm	
78-83-1	2-methylpropan-1-ol	8000* ppm	
108-88-3	toluene	3700* ppm	
71-36-3	butan-1-ol	8000** ppm	
1333-86-4	Carbon black	590 mg/m ³	
9002-88-4	Polyethylene low density	1,000 mg/n	
9003-07-0	polypropylene	350 mg/m ³	
		(Contd. on pag	

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3000* ppm



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

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.

1330-20-7 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: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm BEI
141-78	B-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: 1440 mg/m³, 400 ppm
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123-80	6-4 n-butyl acetate	(Contd. of pa
PEL	Long-term value: 710 mg/m ³ , 150 ppm	
REL	Short-term value: 950 mg/m ³ , 200 ppm	
	Long-term value: 710 mg/m ³ , 150 ppm	
TLV	Short-term value: 712 mg/m ³ , 150 ppm	
	Long-term value: 238 mg/m ³ , 50 ppm	
110-1	9-0 isobutyl acetate	
PEL	Long-term value: 700 mg/m³, 150 ppm	
REL	Long-term value: 700 mg/m ³ , 150 ppm	
TLV	Short-term value: 712 mg/m³, 150 ppm Long-term value: 238 mg/m³, 50 ppm	
108-6	5-6 2-methoxy-1-methylethyl acetate	
	Long-term value: 50 ppm	
100-4	1-4 ethylbenzene	
PEL	Long-term value: 435 mg/m ³ , 100 ppm	
REL	Short-term value: 545 mg/m ³ , 125 ppm	
	Long-term value: 435 mg/m ³ , 100 ppm	
TLV	Long-term value: 87 mg/m³, 20 ppm BEI	
763-69	9-9 ethyl 3-ethoxypropionate	
STEL	5	
	Long-term value: 299 mg/m ³	
78-83-	1 2-methylpropan-1-ol	
PEL	Long-term value: 300 mg/m³, 100 ppm	
REL	Long-term value: 150 mg/m³, 50 ppm	
TLV	Long-term value: 152 mg/m³, 50 ppm	
108-88	3-3 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, NIC-OTO	
71-36-	3 butan-1-ol	
PEL	Long-term value: 300 mg/m³, 100 ppm	
REL	Ceiling limit value: 150 mg/m³, 50 ppm Skin	
TLV	Long-term value: 61 mg/m³, 20 ppm	
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: 307 mg/m³, 75 ppm Long-term value: 82 mg/m³, 20 ppm BEI	
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	(Contd. of · Ingredients with biological limit values:
1330	D-20-7 xylene
	1.5 g/g creatinine
	Medium: urine
	Time: end of shift
	Parameter: Methylhippuric acids
	41-4 ethylbenzene
BEI	0.7 g/g creatinine
	Medium: urine
	Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitativ
	- Medium: end-exhaled air
	Time: not critical
	Parameter: Ethyl benzene (semi-quantitative)
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
Evr	
	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 skin.
	Avoid contact with the eyes and skin.
	Pregnant women should strictly avoid inhalation or skin contact.
	· Breathing equipment: Short term filter device:



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(Contd. of page 8) Filter AX Suitable respiratory protective device recommended. · Protection of hands: Protective gloves Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation The glove material has to be impermeable and resistant to the product . · Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. · Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. · Eye protection: Tightly sealed goggles

9 Physical and chemical properties Information on basic physical and chemical properties · General Information · Appearance: - Form: Fluid · Color: According to product specification · Odor: Characteristic Not determined. · Odor threshold: Not determined. · pH-value: · 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. 340 °C (644 °F) · Ignition temperature: Not determined. · Decomposition temperature: Product is not selfigniting. · Auto igniting: · Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible. (Contd. on page 10)



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		(Contd. of page
· 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):	0.995 g/cm³ (8.303 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
\cdot 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.	
• <i>Kinematic at 20</i> • <i>C</i> (68 • <i>F</i>):	55 s (ISO 6 mm)	
· Oxidising properties:	N.A.	
· Solvent content:		
· Water:	0.0 %	
· VOC content:	58.16 %	
	578.7 g/l / 4.83 lb/gal	
· Solids content:	41.8 %	
Other information (HAPS)		
1330-20-7 xylene		12.5-15%
100-41-4 ethylbenzene		2.5-4.99%
108-88-3 toluene		1-2.49%
108-10-1 4-methylpentan-2-one		≥0.1-<0.5%
80-62-6 methyl methacrylate		<0.1%
Other information	No further relevant information available	

10 Stability and reactivity

- · Reactivity typical of the product as indicated in the data sheet
 - Chemical stability The product is stable in normal conditions of storage and use recommended • Thermal decomposition / conditions to be avoided:
 - No decomposition if used and stored according to specifications.
- Possibility of hazardous reactions
 Reacts with oxidizing agents.
 Vapours may form explosive mixtures with air
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: Acids, alkalis and oxidizing agents
- · Hazardous decomposition products:

in case of possible formation of combustion: Carbon monoxide and carbon dioxide

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		icological effects
· Acute to	-	
		es that are relevant for classification:
•		y Estimate)
Oral Dormol	LD50 LD50	16,752 mg/kg
Dermal Inhalative		7,074 mg/kg 43.8 mg/l (mouse)
1330-20-7		
Oral	LD50.	3,523 mg/kg (mouse)
Dermal	LD50	1,100 mg/kg (rabbit) (ATE value)
	LD50.	12,126 mg/kg (rabbit)
Inhalative		11 mg/l (mouse) (ATE value)
		27.571 mg/l (mouse)
	ethyl aceta	-
Oral	LD50	4,934 mg/kg (rabbit)
Dermal	LD50	20,001 mg/kg (rabbit)
Inhalative		1,600 mg/l (mouse)
	LC0	22.6 ppm (mouse)
	n-butyl ac	
Oral	LD50	10,760 mg/kg (mouse)
Dermal	LD50	14,000 mg/kg (rabbit)
		21.1 mg/l (mouse)
	isobutyl a	
Oral	LD50	13,400 mg/kg (mouse)
Dermal	LD50	17,401 mg/kg (rabbit)
		31 mg/l (mouse)
108-65-62	-	/-1-methylethyl acetate
Oral	LD50	8,532 mg/kg (mouse)
Dermal	LD50	5,001 mg/kg (rabbit)
		35.7 mg/l (mouse)
	ethylbenz	
Oral	LD50	3,500 mg/kg (mouse)
Dermal	LD50	15,486 mg/kg (rabbit)
		17.2 mg/l (mouse)
763-69-9		noxypropionate
Oral	LD50	5,001 mg/kg (mouse)
Dermal	LD50	4,080 mg/kg (mouse)
		999 ppm (mouse)
78-83-1 2-	methylpro	opan-1-ol
Oral	LD50	2,460 mg/kg (mouse)
Dermal	LD50	3,400 mg/kg (rabbit)



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108-88-3 1	oluene	(Contd. of p	age 1
Oral	LD50	5,000 mg/kg (mouse)	
Dermal	LD50	12,124 mg/kg (rabbit)	
Inhalative			
71-36-3 b		20.7 mg/r (modob)	
Oral	LD50	790 mg/kg (mouse)	
Dermal	LD50	3,400 mg/kg (rabbit)	
Inhalative	LC50/4 h		
1333-86-4			
Oral	LD50	5,001 mg/kg (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)	
	ary irritan		
		Irritant to skin and mucous membranes.	
	on the eye:		
		stic effect.	
		ant with the danger of severe eye injury.	
		No sensitizing effects known.	
· Addition	nal toxicolo	ogical information:	
Irritant			
	s skin irrita		
		ye damage.	
		siness or dizziness.	
		ge to the central nervous system and the hearing organs through prolong	ged o
repeate	ed exposul	re. Route of exposure: Oral and Inhalation.	
· Care	cinogenic c	ategories	
	bon Black		
		ograph No. 93 reports there is sufficient evidence of carcinogenic	
		rats exposed to carbon black but inadequate evidence for carcinogenia	
		as assigned a Group 2B rating. In addition, the IARC summary conclude	
•		posure to carbon black is thought to occur during the use of products in	whic
		s bound to other materials, such as paint."	
	/lbenzene		
		ONOGRAPHS VOLUME 77/2000	
		ogenicity data	and
		of workers potentially exposed to ethylbenzene in a production plant perization plant were available. In the first study, no excess of cancer incident	
		t the description of methods was insufficient to allow proper evaluation of	
		second study, no cancer mortality excess was observed during the follo	
	5 years.		
	,		
Eva	luation		
		equate evidence in humans for the carcinogenicity of ethylbenzene.Th	ere
suff	icient evid	ence in experimental animals for the carcinogenicity of thylbenzene.	
		rnational Agency for Research on Cancer - Cl. 1 and 2)	
	ethylben		2E
1333-86-4	Carbon k	plack	2E
	1		

1333-86-4	Carbon black	2B
108-10-1	4-methylpentan-2-one	2B
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64-17-5 ethanol

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· 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		
1330-20-7 x	kylene	
EC50	2.2 mg/l (algae) (72h)	
LC50 48h	1 mg/l (daphnia)	
LC50 (96h)	2.6 mg/l (Fish)	
141-78-6 et	hyl acetate	
EC50	165 mg/l (daphnia) (48 h)	
LC50 (96h)	230 mg/l (Fish)	
123-86-4 n-	butyl acetate	
EC50	397 mg/l (algae) (72 h)	
	44 mg/l (daphnia) (48 h)	
LC50 (96h)	18 mg/l (Fish)	
110-19-0 is	obutyl acetate	
EC50	370 mg/l (algae) (72 h)	
	25 mg/l (daphnia)	
LC50 (96h)	17 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)	
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)	
763-69-9 et	hyl 3-ethoxypropionate	
EC50	115 mg/l (algae) (72 h)	
	873 mg/l (daphnia) (48 h)	
LC50 (96h)	60.9 mg/l (Fish)	
78-83-1 2-n	nethylpropan-1-ol	
EC50	1,799 mg/l (algae) (72 h)	
	1,100 mg/l (daphnia) (48 h)	
LC50 (96h)	1,430 mg/l (Fish)	
108-88-3 to		
EC50	134 mg/l (algae) (96 h)	
	3.78 mg/l (daphnia) (48 h)	
	1	(Contd. on page



Safety Data Sheet acc. to OSHA HCS Version number 23

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		(Contd. of page 13)
	5.5 mg/l (Fish)	
108-10-1 4-	methylpentan-2-one	
EC50	201 mg/l (daphnia) (48 h)	
	180 mg/l (Fish)	
	e and degradability	
	to the substance Toluene CAS Ne legradable (according to OECD c	
· Substance	es Easily biodegradable	
1330-20-7 >	kylene	
141-78-6	ethyl acetate	
123-86-4 ı	n-butyl acetate	
110-19-0 i	sobutyl acetate	
108-65-6 2	2-methoxy-1-methylethyl acetate	
100-41-4 (ethylbenzene	
78-83-1 2	2-methylpropan-1-ol	
108-88-3 t	toluene	
· Other adve	o drinking water if even small qua rse effects No further relevant ini considerations	
b Disposar	considerations	
· Recomme	t be disposed of together with	household garbage. Do not allow product to reach
sewage s Hand ove	er to hazardous waste disposers.	rdance with local state and federal regulations.
sewage s Hand ove Dispose • Uncleaned	er to hazardous waste disposers.	rdance with local state and federal regulations.
sewage s Hand ove Dispose • Uncleaned • Recomme	er to hazardous waste disposers. of contents and container in acco packagings:	rdance with local state and federal regulations.

· UN proper shipping name · DOT

· DOT · IMDG, IATA - - - -

Paint PAINT

(Contd. on page 15)



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	(Contd. of page 1
Transport hazard class(es)	
·DOT	
PLAMMABLE LOUD	
3	
· Class	3 Flammable liquids
·Label	3
· Class	3 Flammable liquids
· Label	3
· IMDG, IATA	
3	
· Class	3 Flammable liquids
· Label	3
Packing group	
· DOT, IMDĠ, IATA	<i>III</i>
Environmental hazards:	
· Marine pollutant:	No
Special precautions for user W	/arning: Flammable liquids
· Hazard identification number (Kemler code): -
· EMS Number:	F-E, <u>S-E</u>
· Stowage Category	A
Transport in bulk according to Annex II of	
	ot applicable.
Transport/Additional information:	
·IMDG	EI.
· Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1
· Excepteu quammes (EQ)	Maximum net quantity per inner packaging: 3
	ml
	Maximum net quantity per outer packaging
	1000 ml
UN "Model Regulation": U	N 1263 PAINT, 3, III

15 Regulatory information

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

· SARA

• Section 355 (extremely hazardous substances): None of the ingredients is listed.

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US



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	ion 313 (Specific toxic chemical listings) :		
1330-20-7	xylene		12.5-15%
100-41-4	ethylbenzene		2.5-4.99%
108-88-3	toluene		1-2.49%
71-36-3	butan-1-ol		1-2.49%
108-10-1	4-methylpentan-2-one		≥0.1-<0.59
80-62-6	methyl methacrylate		<0.1%
67-63-0	propan-2-ol		<0.01%
•	Toxic Substances Control Act):		
All compor	nents have the value ACTIVE.		
	urdous Air Pollutants		
1330-20-7	-		
	ethylbenzene		
108-88-3			
	4-methylpentan-2-one		
	methyl methacrylate		
· Proposit			
	nicals known to cause cancer: bon black only in bound form		
	ethylbenzene	*	2.5-4.99%
	Carbon black	*	0.5-1%
	4-methylpentan-2-one	*	≥0.1-<0.5
	nicals known to cause reproductive toxicity for females:		20:1 (0:0
• (<i>ne</i>)	πιεαίς κποψη το εαμέρ κρηγοσμετινρ τογιείτν τον τριπαίρει		
			-0.10
70657-70-4	4 2-methoxypropyl acetate		<0.15
70657-70-4 · Cher	4 2-methoxypropyl acetate nicals known to cause reproductive toxicity for males:		<0.19
70657-70-4 · Cher None of the	4 2-methoxypropyl acetate nicals known to cause reproductive toxicity for males: e ingredients is listed.		<0.19
70657-70-4 · Cher None of the · Cher	4 2-methoxypropyl acetate nicals known to cause reproductive toxicity for males: e ingredients is listed. nicals known to cause developmental toxicity:		
70657-70- · Cher None of th · Cher 108-88-3	4 2-methoxypropyl acetate nicals known to cause reproductive toxicity for males: e ingredients is listed. nicals known to cause developmental toxicity: toluene		1-2.49%
70657-70- · Cher None of th · Cher 108-88-3	4 2-methoxypropyl acetate nicals known to cause reproductive toxicity for males: e ingredients is listed. nicals known to cause developmental toxicity:		
70657-70- · Cher None of th · Cher 108-88-3	4 2-methoxypropyl acetate nicals known to cause reproductive toxicity for males: e ingredients is listed. nicals known to cause developmental toxicity: toluene 4-methylpentan-2-one		1-2.49%
70657-70-4 · Cher None of the · Cher 108-88-3 108-10-1 64-17-5	4 2-methoxypropyl acetate nicals known to cause reproductive toxicity for males: e ingredients is listed. nicals known to cause developmental toxicity: toluene 4-methylpentan-2-one		1-2.49% ≥0.1-<0.55
70657-70-4 · Cher None of the · Cher 108-88-3 108-10-1 64-17-5 · Carcino	4 2-methoxypropyl acetate nicals known to cause reproductive toxicity for males: e ingredients is listed. nicals known to cause developmental toxicity: toluene 4-methylpentan-2-one ethanol		1-2.49% ≥0.1-<0.55
70657-70-4 · Cher None of the · Cher 108-88-3 108-10-1 64-17-5 · Carcino	4 2-methoxypropyl acetate nicals known to cause reproductive toxicity for males: e ingredients is listed. nicals known to cause developmental toxicity: toluene 4-methylpentan-2-one ethanol genic categories (Environmental Protection Agency)		1-2.49% ≥0.1-<0.55
70657-70-4 · Cher None of the · Cher 108-88-3 i 108-10-1 · Carcino · EPA 1330-20-7	4 2-methoxypropyl acetate nicals known to cause reproductive toxicity for males: e ingredients is listed. nicals known to cause developmental toxicity: toluene 4-methylpentan-2-one ethanol genic categories (Environmental Protection Agency)		1-2.49% ≥0.1-<0.59 <0.1%
70657-70-4 · Cher None of the · Cher 108-88-3 i 108-10-1 · Carcino · EPA 1330-20-7	4 2-methoxypropyl acetate nicals known to cause reproductive toxicity for males: e ingredients is listed. nicals known to cause developmental toxicity: toluene 4-methylpentan-2-one ethanol genic categories (Environmental Protection Agency) xylene 1 ethylbenzene D		1-2.49% ≥0.1-<0.5% <0.1% 12.5-15%
70657-70-4 · Cher None of the · Cher 108-88-3 a 108-10-1 a 64-17-5 a · Carcino · EPA 1330-20-7 100-41-4 108-88-3	4 2-methoxypropyl acetate nicals known to cause reproductive toxicity for males: e ingredients is listed. nicals known to cause developmental toxicity: toluene 4-methylpentan-2-one ethanol genic categories (Environmental Protection Agency) xylene 1 ethylbenzene D		1-2.49% ≥0.1-<0.59 <0.1% 12.5-15% 2.5-4.999
70657-70- · Cher None of th · Cher 108-88-3 108-10-1 · Carcino · EPA 1330-20-7 100-41-4 108-88-3 71-36-3	4 2-methoxypropyl acetate nicals known to cause reproductive toxicity for males: e ingredients is listed. nicals known to cause developmental toxicity: toluene 4-methylpentan-2-one ethanol genic categories (Environmental Protection Agency) xylene 1 ethylbenzene D toluene 11		1-2.49% ≥0.1-<0.5% <0.1% 12.5-15% 2.5-4.99% 1-2.49%
70657-70- · Cher None of th · Cher 108-88-3 a 108-10-1 a · Carcino · EPA 1330-20-7 100-41-4 108-88-3 71-36-3 108-10-1	4 2-methoxypropyl acetate nicals known to cause reproductive toxicity for males: e ingredients is listed. nicals known to cause developmental toxicity: toluene 4-methylpentan-2-one ethanol genic categories (Environmental Protection Agency) xylene 1 ethylbenzene D toluene 11 butan-1-ol D		1-2.49% ≥0.1-<0.5% <0.1% 12.5-15% 2.5-4.99% 1-2.49% 1-2.49%
70657-70-4 · Cher None of the · Cher 108-88-3 a 108-10-1 a 64-17-5 a · Carcino · EPA 1330-20-7 100-41-4 108-88-3 71-36-3 108-10-1 80-62-6	4 2-methoxypropyl acetate nicals known to cause reproductive toxicity for males: e ingredients is listed. nicals known to cause developmental toxicity: toluene 4-methylpentan-2-one ethanol genic categories (Environmental Protection Agency) xylene I ethylbenzene D toluene II butan-1-ol D 4-methylpentan-2-one I	NL	1-2.49% ≥0.1-<0.5% <0.1% 12.5-15% 2.5-4.99% 1-2.49% 1-2.49% ≥0.1-<0.5
70657-70- · Cher None of the · Cher 108-88-3 a 108-10-1 a 64-17-5 a · Carcino · EPA 1330-20-7 100-41-4 108-88-3 71-36-3 108-10-1 80-62-6 78-93-3	4 2-methoxypropyl acetate nicals known to cause reproductive toxicity for males: e ingredients is listed. nicals known to cause developmental toxicity: toluene 4-methylpentan-2-one ethanol genic categories (Environmental Protection Agency) xylene I ethylbenzene D toluene II butan-1-ol D 4-methylpentan-2-one I	NL	1-2.49% ≥0.1-<0.5% <0.1% 12.5-15% 2.5-4.99% 1-2.49% 1-2.49% ≥0.1-<0.5 <0.1%
70657-70- · Cher None of the · Cher 108-88-3 a 108-10-1 a 64-17-5 a · Carcino · EPA 1330-20-7 100-41-4 108-88-3 71-36-3 108-10-1 80-62-6 78-93-3	4 2-methoxypropyl acetate nicals known to cause reproductive toxicity for males: e ingredients is listed. nicals known to cause developmental toxicity: toluene 4-methylpentan-2-one ethanol genic categories (Environmental Protection Agency) xylene 1 ethylbenzene D toluene 11 butan-1-ol D 4-methyl methacrylate E, I butanone 1	NL	1-2.49% ≥0.1-<0.5% <0.1% 12.5-15% 2.5-4.99% 1-2.49% 1-2.49% ≥0.1-<0.5 <0.1%
70657-70-4 · Cher None of th · Cher 108-88-3 108-10-1 · Carcino · EPA 1330-20-7 100-41-4 108-88-3 71-36-3 108-10-1 80-62-6 78-93-3 · TLV 1330-20-7	4 2-methoxypropyl acetate nicals known to cause reproductive toxicity for males: e ingredients is listed. nicals known to cause developmental toxicity: toluene 4-methylpentan-2-one ethanol genic categories (Environmental Protection Agency) xylene 1 ethylbenzene D toluene 11 butan-1-ol D 4-methyl methacrylate E, I butanone 1	NIL.	1-2.49% ≥0.1-<0.5% <0.1% 12.5-15% 2.5-4.99% 1-2.49% ≥0.1-<0.5 <0.1% <0.01%
70657-70-4 · Cher None of th · Cher 108-88-3 108-10-1 · Carcino · EPA 1330-20-7 100-41-4 108-88-3 71-36-3 108-10-1 80-62-6 78-93-3 · TLV 1330-20-7	4 2-methoxypropyl acetate nicals known to cause reproductive toxicity for males: e ingredients is listed. nicals known to cause developmental toxicity: toluene 4-methylpentan-2-one ethanol genic categories (Environmental Protection Agency) xylene 1 ethylbenzene D toluene 11 butan-1-ol D 4-methylpentan-2-one 1 rethylbenzene 1 toluene 11 butan-1-ol D 4-methylpentan-2-one 1 methyl methacrylate E, i butanone 1 methyl methacrylate E, i butanone 1 (Threshold Limit Value established by ACGIH) xylene ethylbenzene 1		1-2.49% ≥0.1-<0.5% <0.1% 12.5-15% 2.5-4.99% 1-2.49% 1-2.49% ≥0.1-<0.5 <0.1% <0.01%



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80-62-6 methyl methacrylate	A4
64-17-5 ethanol	A3
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
1333-86-4 Carbon black	0.5-1%

· National regulations:

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

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

16 Other information

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

· Department issuing SDS: IVM Chemicals Srl

· Contact: See emergency phone

• Date of preparation / last revision 10/16/2020 / 22

· Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists 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, ÉU) 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. 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

 \cdot * Data compared to the previous version altered.