

Printing date 08/30/2021

Version number 267

Reviewed on 08/16/2021

#### 1 Identification

- · Product identifier
  - · Product number LLA6020
  - · Trade name: ACR CLEAR TOPCOAT 100SH
    - · 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

а

· Emergency telephone number:

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

### 2 Hazard(s) identification

#### · Classification of the substance or mixture

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

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Carc. 2 H351 Suspected of causing cancer.

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

STOT SE 3 H336 May cause drowsiness or dizziness.

STOT RE 2 H373 May cause damage to the central nervous system and the hearing organs

through prolonged or repeated exposure. Route of exposure: Oral and

Inhalation.

#### · Label elements

· GHS label elements

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

· Hazard pictograms







GHS02 GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

n-butyl acetate

xylene

ethylbenzene

toluene

methyl methacrylate

· Hazard statements

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

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H373 May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Oral and Inhalation.

· Precautionary statements

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

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

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

#### · Classification system:

· NFPA ratings (scale 0 - 4)



Health = 2 Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = \*2 Fire = 3

Reactivity = 0

### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

· Dangero	ous components:	
123-86-4	n-butyl acetate  Flam. Liq. 3, H226 STOT SE 3, H336	20-24.99%
110-19-0	isobutyl acetate  Flam. Liq. 2, H225 STOT SE 3, H336	5-9.99%
1330-20-7	xylene Flam. Liq. 3, H226 STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335 Aquatic Chronic 3, H412	5-9.99%
141-78-6	ethyl acetate  Flam. Liq. 2, H225  Eye Irrit. 2A, H319; STOT SE 3, H336	2.5-4.99%
108-65-6	2-methoxy-1-methylethyl acetate  Flam. Liq. 3, H226 STOT SE 3, H336	2.5-4.99%
100-41-4	ethylbenzene  Flam. Liq. 2, H225 Carc. 2, H351; STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H332 Aquatic Chronic 3, H412	1-2.49%

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<i>7</i> 8-93-3	butanone	1-2.49%
	<ul><li>♦ Flam. Liq. 2, H225</li><li>♦ Eye Irrit. 2A, H319; STOT SE 3, H336</li></ul>	
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	
108-10-1	4-methylpentan-2-one	1-2.49%
	<ul> <li>Flam. Liq. 2, H225</li> <li>Carc. 2, H351</li> <li>Acute Tox. 4, H332; Eye Irrit. 2A, H319; STOT SE 3, H335</li> </ul>	
108-94-1	cyclohexanone	1-2.49%
	Flam. Liq. 3, H226 Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	
67-63-0	propan-2-ol	0.5-1%
	<ul> <li>Flam. Liq. 2, H225</li> <li>Eye Irrit. 2A, H319; STOT SE 3, H336</li> </ul>	
80-62-6	methyl methacrylate	≥0.1-<0.5%
	<ul> <li>Flam. Liq. 2, H225</li> <li>Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335</li> </ul>	

### 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:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · 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 Allergic reactions

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

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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

	, rioueri errieria rei erreimeare	
· PAC-1:		
123-86-4	n-butyl acetate	5 ppm
110-19-0	isobutyl acetate	450 ppm
1330-20-7	xylene	130 ppm
141-78-6	ethyl acetate	1,200 ppm
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
100-41-4	ethylbenzene	33 ppm
78-93-3	butanone	200 ppm
108-88-3	toluene	67 ppm
108-10-1	4-methylpentan-2-one	75 ppm
108-94-1	cyclohexanone	60 ppm
67-63-0	propan-2-ol	400 ppm
80-62-6	methyl methacrylate	17 ppm
· PAC-2:		
123-86-4	n-butyl acetate	200 ppm
110-19-0	isobutyl acetate	1300* ppm
1330-20-7	xylene	920* ppm
		(Contd. on page



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444.70.0	Total Constant	(Contd. of page
	ethyl acetate	1,700 ppm
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
100-41-4	ethylbenzene	1100* ppm
78-93-3	butanone	2700* ppm
108-88-3	toluene	560 ppm
108-10-1	4-methylpentan-2-one	500 ppm
108-94-1	cyclohexanone	830 ppm
67-63-0	propan-2-ol	2000* ppn
80-62-6	methyl methacrylate	120 ppm
· PAC-3:		·
123-86-4	n-butyl acetate	3000* ppm
110-19-0	isobutyl acetate	7500** ppm
1330-20-7	xylene	2500* ppm
141-78-6	ethyl acetate	10000** ppn
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
100-41-4	ethylbenzene	1800* ppm
78-93-3	78-93-3 butanone	
108-88-3	108-88-3 toluene 37	
108-10-1	108-10-1 4-methylpentan-2-one 3	
108-94-1	08-94-1 cyclohexanone 500	
67-63-0	propan-2-ol	12000** ppn
80-62-6	methyl methacrylate	570 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.

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· 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

	omponents with limit values that require monitoring at the workplace:	
123-8	36-4 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	
110 1	Long-term value: 50 ppm	
	19-0 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	
1000	Long-term value: 50 ppm	
	-20-7 xylene	
PEL	Long-term value: 435 mg/m³, 100 ppm	
REL	Short-term value: 655 mg/m³, 150 ppm	
T	Long-term value: 435 mg/m³, 100 ppm	
TLV	Short-term value: (150) ppm Long-term value: (100) NIC-20 ppm	
	BEI, A4	
141-7	78-6 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	
108-6	65-6 2-methoxy-1-methylethyl acetate	
WEEL	L Long-term value: 50 ppm	
100-4	11-4 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	
	3-3 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	

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108-88	3-3 toluene	(Contd. of
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	
	1-1 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	
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	
80-62-	6 methyl methacrylate	
PEL	Long-term value: 410 mg/m³, 100 ppm	
REL	Long-term value: 410 mg/m³, 100 ppm	
TLV	Short-term value: 100 ppm Long-term value: 50 ppm DSEN, A4	
	· Ingredients with biological limit values:	
1330-2	20-7 xylene	
	5 g/g creatinine	
N	ledium: urine	
	ime: end of shift arameter: Methylhippuric acids	
	-4 ethylbenzene	
	15 g/g creatinine	
	ledium: urine ime: end of shift at end of workweek	
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#### 78-93-3 butanone

#### BEI 2 mg/L

Medium: urine Time: end of shift

Parameter: Methyl ethyl ketone (nonspecific)

#### 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

#### 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)

#### 67-63-0 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.

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· 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.

· Eye protection:



Tightly sealed goggles

### 9 Physical and chemical properties

- · Information on basic physical and chemical properties
  - · General Information

 $\cdot$  Appearance:

· Form: Fluid

· Color: According to product specification

Odor: CharacteristicOdor 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: 420 °C (788 °F)

· Decomposition temperature: Not determined.

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· Auto igi	niting:	Product is not selfigniting.	
· Danger	of explosion:	Product is not explosive. However, fo air/vapor mixtures are possible.	rmation of explosiv
· Explosio	on limits:		
·Low	er:	1 Vol %	
· Upp	er:	11.5 Vol %	
· Vapor p	ressure at 20 °C (68 °F):	105 hPa (78.8 mm Hg)	
	(+/- 0,03) at 20 °C (68 °F):	0.966 g/cm³ (8.061 lbs/gal)	
	tive density	Not determined.	
_	or density	Not determined.	
· Evap	poration rate	Not determined.	
	ty in / Miscibility with	Not missible an difficult to miss	
· Water:		Not miscible or difficult to mix.	
· Partitio	n coefficient (n-octanol/water	·): Not determined.	
· Viscosit	•		
· Dyne		Not determined.	
	matic at 20 °C (68 °F):	70 s (ISO 4 mm) N.A.	
	ng properties:	N.A.	
· Solvent	**********	57.47.0/	
· VOC	Content:	57.17 %	
		552.3 g/l / 4.61 lb/gal	
· Solids content:		42.8 %	
	rmation (HAPS)		1 =
1330-20-7	•		5-9.99%
	ethylbenzene		1-2.49%
108-88-3	11 11 1		1-2.49%
	4-methylpentan-2-one		1-2.49%
	methyl methacrylate		≥0.1-<0.5%
	2-Phenoxyethanol		<0.1%
· Other in	formation	No further relevant information availab	ole.

### 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:

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Carbon monoxide and carbon dioxide

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# 11 Toxicological information

ATE (Acute Toxicity Estimate)   Oral		LC30 value	es that are relevant for classification:
Dermal   LD50   13,302 mg/kg (rabbit)   Inhalative   LC50/4 h   99.1 mg/l (mouse)	ATE (Acu		· · · · · · · · · · · · · · · · · · ·
	Oral	LD50	171,818 mg/kg
123-86-4 n-butyl acetate	Dermal	LD50	13,302 mg/kg (rabbit)
Oral         LD50         10,760 mg/kg (mouse)           Dermal         LD50         14,000 mg/kg (rabbit)           Inhalative         LC50/4 h         21.1 mg/l (mouse)           110-19-0 isobutyl acetate         Oral         LD50         13,400 mg/kg (mouse)           Dermal         LD50         17,401 mg/kg (rabbit)           Inhalative         LC50/4 h         31 mg/l (mouse)           1330-20-7 xylene         Oral         LD50         3,523 mg/kg (mouse)           Dermal         LD50         1,100 mg/kg (rabbit) (ATE value)           LD50         1,2126 mg/kg (rabbit) (ATE value)           LD50         12,126 mg/kg (rabbit)           Inhalative         LC50/4 h         11 mg/l (mouse) (ATE value)           LC50/4 h         1.1 mg/l (mouse) (ATE value)           LC50/4 h         1.2,757 mg/l (mouse)           141-78-6 ethyl acetate           Oral         LD50         20,001 mg/kg (rabbit)           Dermal         LC50/4 h         1,600 mg/l (mouse)           LC0         22.6 ppm (mouse)           100-41-4 ethylbenzene         22.6 ppm (mouse)           Oral         LD50         8,532 mg/kg (mouse)           Dermal         LD50         3,500 mg/kg (mouse)           100-41-4	Inhalative	LC50/4 h	99.1 mg/l (mouse)
Dermal Inhalative In	123-86-4 ı	า-butyl ac	etate
Inhalative   LC50/4 h   21.1 mg/l (mouse)	Oral	LD50	10,760 mg/kg (mouse)
110-19-0   isobuty  acetate	Dermal	LD50	14,000 mg/kg (rabbit)
Oral         LD50         13,400 mg/kg (mouse)           Dermal         LD50         17,401 mg/kg (rabbit)           Inhalative         LC50/4 h         31 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) (aTE value)           LD50.         12,126 mg/kg (rabbit)           Inhalative         LC50/4 h         11 mg/l (mouse) (ATE value)           UC50/4h.         27.571 mg/l (mouse)           141-78-6 ethyl acetate           Oral         LD50         4,934 mg/kg (rabbit)           Inhalative         LC50/4 h         1,600 mg/l (mouse)           1nhalative         LC50/4 h         1,600 mg/l (mouse)           108-65-6 2-methoxy-1-methylethyl acetate           Oral         LD50         8,532 mg/kg (mouse)           Dermal         LD50         5,001 mg/kg (rabbit)           Inhalative         LC50/4 h         35.7 mg/l (mouse)           100-41-4 ethylbenzene           Oral         LD50         3,500 mg/kg (mouse)           Dermal         LD50         15,486 mg/kg (rabbit)           Inhalative         LC50/4 h <td>Inhalative</td> <td>LC50/4 h</td> <td>21.1 mg/l (mouse)</td>	Inhalative	LC50/4 h	21.1 mg/l (mouse)
Dermal   LD50   17,401 mg/kg (rabbit)   1730-20-7 xylene	110-19-0 i	sobutyl a	cetate
Inhalative	Oral	LD50	13,400 mg/kg (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)   141-78-6 ethyl acetate   Oral   LD50   4,934 mg/kg (rabbit)   Dermal   LD50   20,001 mg/kg (rabbit)   Inhalative   LC50/4 h   1,600 mg/l (mouse)   LC0   22.6 ppm (mouse)   108-65-6 2-methoxy-1-methylethyl acetate   Oral   LD50   8,532 mg/kg (mouse)   Dermal   LD50   5,001 mg/kg (rabbit)   Inhalative   LC50/4 h   35.7 mg/l (mouse)   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)   78-93-3 butanone   Oral   LD50   2,001 mg/kg (mouse)   Opermal   LD50   2,001 mg/kg (mouse)   Opermal   LD50   2,001 mg/kg (mouse)   Opermal   LD50   5,001 mg/kg (mouse)   Opermal   LD50   0,001 mg/kg (mouse)	Dermal	LD50	17,401 mg/kg (rabbit)
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)           141-78-6 ethyl acetate           Oral         LD50         4,934 mg/kg (rabbit)           Dermal         LD50         20,001 mg/kg (rabbit)           Inhalative         LC50/4 h         1,600 mg/l (mouse)           LC0         22.6 ppm (mouse)           108-65-6 2-methoxy-1-methylethyl acetate           Oral         LD50         8,532 mg/kg (mouse)           Dermal         LD50         5,001 mg/kg (rabbit)           Inhalative         LC50/4 h         35.7 mg/l (mouse)           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)           78-93-3 butanone           Oral         LD50         5,001 mg/kg (mouse)           Dermal         LD50         5,001 mg/kg (rabbit)	Inhalative	LC50/4 h	31 mg/l (mouse)
Dermal   LD50	1330-20-7	xylene	
Inhalative	Oral	LD50.	3,523 mg/kg (mouse)
Inhalative	Dermal	LD50	1,100 mg/kg (rabbit) (ATE value)
LC50/4h.   27.571 mg/l (mouse)		LD50.	12,126 mg/kg (rabbit)
141-78-6 ethyl acetate           Oral         LD50         4,934 mg/kg (rabbit)           Dermal         LD50         20,001 mg/kg (rabbit)           Inhalative         LC50/4 h         1,600 mg/l (mouse)           LC0         22.6 ppm (mouse)           108-65-6 2-methoxy-1-methylethyl acetate           Oral         LD50         8,532 mg/kg (mouse)           Dermal         LD50         5,001 mg/kg (rabbit)           Inhalative         LC50/4 h         35.7 mg/l (mouse)           Dermal         LD50         3,500 mg/kg (mouse)           Dermal         LD50         15,486 mg/kg (rabbit)           Inhalative         LC50/4 h         17.2 mg/l (mouse)           78-93-3 butanone           Oral         LD50         2,001 mg/kg (mouse)           Dermal         LD50         5,001 mg/kg (rabbit)	Inhalative	LC50/4 h	11 mg/l (mouse) (ATE value)
Oral         LD50         4,934 mg/kg (rabbit)           Dermal         LD50         20,001 mg/kg (rabbit)           Inhalative         LC50/4 h         1,600 mg/l (mouse)           108-65-6 2-methoxy-1-methylethyl acetate           Oral         LD50         8,532 mg/kg (mouse)           Dermal         LD50         5,001 mg/kg (rabbit)           Inhalative         LC50/4 h         35.7 mg/l (mouse)           100-41-4 ethylbenzere         0ral         LD50         3,500 mg/kg (mouse)           Dermal         LD50         15,486 mg/kg (rabbit)           Inhalative         LC50/4 h         17.2 mg/l (mouse)           78-93-3 butanone           Oral         LD50         2,001 mg/kg (mouse)           Dermal         LD50         5,001 mg/kg (rabbit)		LC50/4h.	27.571 mg/l (mouse)
Dermal         LD50         20,001 mg/kg (rabbit)           Inhalative         LC50/4 h         1,600 mg/l (mouse)           108-65-6 2-methoxy-1-methylethyl acetate           Oral         LD50         8,532 mg/kg (mouse)           Dermal         LD50         5,001 mg/kg (rabbit)           Inhalative         LC50/4 h         35.7 mg/l (mouse)           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)           78-93-3 butanone           Oral         LD50         2,001 mg/kg (mouse)           Dermal         LD50         5,001 mg/kg (rabbit)	141-78-6 e	ethyl aceta	ate
Inhalative	Oral	LD50	4,934 mg/kg (rabbit)
LC0       22.6 ppm (mouse)         108-65-6 2-methoxy-1-methylethyl acetate         Oral       LD50       8,532 mg/kg (mouse)         Dermal       LD50       5,001 mg/kg (rabbit)         Inhalative       LC50/4 h       35.7 mg/l (mouse)         100-41-4 ethylbenzene       0ral       LD50       3,500 mg/kg (mouse)         Dermal       LD50       15,486 mg/kg (rabbit)         Inhalative       LC50/4 h       17.2 mg/l (mouse)         78-93-3 butanone         Oral       LD50       2,001 mg/kg (mouse)         Dermal       LD50       5,001 mg/kg (rabbit)	Dermal	LD50	20,001 mg/kg (rabbit)
108-65-6 2-methoxy-1-methylethyl acetate         Oral       LD50       8,532 mg/kg (mouse)         Dermal       LD50       5,001 mg/kg (rabbit)         Inhalative       LC50/4 h       35.7 mg/l (mouse)         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)         78-93-3 butanone         Oral       LD50       2,001 mg/kg (mouse)         Dermal       LD50       5,001 mg/kg (rabbit)	Inhalative	LC50/4 h	1,600 mg/l (mouse)
Oral         LD50         8,532 mg/kg (mouse)           Dermal         LD50         5,001 mg/kg (rabbit)           Inhalative         LC50/4 h         35.7 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)           78-93-3 butanone           Oral         LD50         2,001 mg/kg (mouse)           Dermal         LD50         5,001 mg/kg (rabbit)		LC0	22.6 ppm (mouse)
Dermal         LD50         5,001 mg/kg (rabbit)           Inhalative         LC50/4 h         35.7 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)           78-93-3 butanone           Oral         LD50         2,001 mg/kg (mouse)           Dermal         LD50         5,001 mg/kg (rabbit)	108-65-6 2	?-methoxy	/-1-methylethyl acetate
Inhalative	Oral	LD50	8,532 mg/kg (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)         78-93-3 butanone         Oral       LD50       2,001 mg/kg (mouse)         Dermal       LD50       5,001 mg/kg (rabbit)	Dermal	LD50	5,001 mg/kg (rabbit)
Oral         LD50         3,500 mg/kg (mouse)           Dermal         LD50         15,486 mg/kg (rabbit)           Inhalative         LC50/4 h         17.2 mg/l (mouse)           78-93-3 butanone         Oral         LD50         2,001 mg/kg (mouse)           Dermal         LD50         5,001 mg/kg (rabbit)	Inhalative	LC50/4 h	35.7 mg/l (mouse)
Dermal         LD50         15,486 mg/kg (rabbit)           Inhalative         LC50/4 h         17.2 mg/l (mouse)           78-93-3 butanone         Coral         LD50         2,001 mg/kg (mouse)           Dermal         LD50         5,001 mg/kg (rabbit)	100-41-4 e	thylbenze	ene
Inhalative         LC50/4 h         17.2 mg/l (mouse)           78-93-3 butanone         Oral         LD50         2,001 mg/kg (mouse)           Dermal         LD50         5,001 mg/kg (rabbit)	Oral	LD50	3,500 mg/kg (mouse)
78-93-3 butanone           Oral         LD50         2,001 mg/kg (mouse)           Dermal         LD50         5,001 mg/kg (rabbit)	Dermal	LD50	15,486 mg/kg (rabbit)
Oral LD50 2,001 mg/kg (mouse) Dermal LD50 5,001 mg/kg (rabbit)	Inhalative	LC50/4 h	17.2 mg/l (mouse)
Dermal LD50 5,001 mg/kg (rabbit)	78-93-3 bi	utanone	
, 5 5 7	Oral	LD50	2,001 mg/kg (mouse)
Inhalative LC50/4 h 21 mg/l (mouse)	Dermal	LD50	5,001 mg/kg (rabbit)
	Inhalative	LC50/4 h	21 mg/l (mouse)

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Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	25.7 mg/l (mouse)
108-10-1	1-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	
Oral	LD50	4,710 mg/kg (mouse)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50/4 h	72.6 mg/l (mouse)
80-62-6 m	ethyl met	hacrylate
Oral	LD50	7,872 mg/kg (mouse)
Dermal	LD50	5,001 mg/kg (rabbit)
Inhalative	LC50/4 h	78 mg/l (mouse)

- · Primary irritant effect:
  - · on the skin: No irritant effect.
  - · on the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

Irritant

Causes serious eye irritation.

May cause drowsiness or dizziness.

Contains methyl methacrylate. May produce an allergic reaction.

#### · Carcinogenic categories

Ethylbenzene

From IARC MONOGRAPHS VOLUME 77/2000

Human carcinogenicity data

Two studies of workers potentially exposed to ethylbenzene in a production plant and a styrene polymerization plant were available. In the first study, no excess of cancer incidence was found but the description of methods was insufficient to allow proper evaluation of this finding. In the second study, no cancer mortality excess was observed during the follow-up of 15 years.

#### **Evaluation**

There is inadequate evidence in humans for the carcinogenicity of ethylbenzene. There is sufficient evidence in experimental animals for the carcinogenicity of ethylbenzene.

•.	· IARC (International Agency for Research on Cancer - Cl. 1 and 2)			
100-41-4	ethylbenzene	2B		
108-10-1	108-10-1 4-methylpentan-2-one			
•.	· NTP (National Toxicology Program)			
None of t	None of the ingredients is listed.			

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· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

Ecologic	al information	
Toxicity		
· Aquatic t		
	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)	
1330-20-7 x	rylene	
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)	
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)	
78-93-3 but	anone	
EC50	2,029 mg/l (algae) (96 h)	
	308 mg/l (daphnia) (48 h)	
LC50 (96h)	2,993 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)	
108-10-1 4-	methylpentan-2-one	
EC50	201 mg/l (daphnia) (48 h)	
LC50 (96h)	180 mg/l (Fish)	
108-94-1 cy	vclohexanone	
EC50	101 mg/l (algae) (72 h)	
	101 mg/l (daphnia)	



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LC50 (96h) 527 mg/l (Fish)

67-63-0 propan-2-ol

EC50 1,001 mg/l (algae) (72 h)
10,000 mg/l (daphnia) (24 h)

LC50 (96h) 9,640 mg/l (Fish)

80-62-6 methyl methacrylate

EC50 170 mg/l (algae) (72 h)
LC50 (96h) 191 mg/l (Fish)

#### Persistence and degradability

Data refers to the substance Toluene CAS No. 108-88-3

Readily biodegradable (according to OECD criteria and/or EU RAR)

· Substan	ces Easily biodegradable	
123-86-4	n-butyl acetate	
110-19-0	isobutyl acetate	
1330-20-7	xylene	
141-78-6	ethyl acetate	
108-65-6	2-methoxy-1-methylethyl acetate	
100-41-4	ethylbenzene	
78-93-3	butanone	
108-88-3	toluene	
108-10-1	4-methylpentan-2-one	
108-94-1	cyclohexanone	
67-63-0	propan-2-ol	

#### 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.

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Transport information	
UN-Number	
· DOT, IMDG, IATA	UN1263
· Note	Check the viscosity at section 9
UN proper shipping name	
· DOT	Paint
· IMDG, IATA	PAINT
Transport hazard class(es)	
$\cdot DOT$	
PAMMER (SZD)	
· Class	3 Flammable liquids
$\cdot$ Label	3
· Class · Label	3 Flammable liquids 3
· IMDG, IATA	J
· NuDO, IATA	
· Class	3 Flammable liquids
· Label	3
Packing group · DOT, IMDG, IATA	II
Environmental hazards:	
· Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kem	
· EMS Number: · Stowage Category	F-E, <u>S-E</u> B
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	
Transport/Additional information:	
· IMDG	
$\cdot$ Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 3 ml
	Maximum net quantity per outer packagin 500 ml
UN "Model Regulation":	UN 1263 PAINT, 3, II



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## 15 Regulatory information

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

Requirements of Federal Register

- · Various regulations
  - · SARA

$\cdot S$	ection 355 (extremely hazardous substances):	
None of th	e ingredients is listed.	
$\cdot S$	ection 313 (Specific toxic chemical listings) :	
1330-20-7	xylene	5-9.99%
100-41-4	ethylbenzene	1-2.49%
108-88-3	toluene	1-2.49%
108-10-1	4-methylpentan-2-one	1-2.49%
67-63-0	propan-2-ol	0.5-1%
80-62-6	methyl methacrylate	≥0.1-<0.5%
122-99-6	2-Phenoxyethanol	<0.1%
. TSCA (Taxic Substances Control Act).		

#### · TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants	
1330-20-7	
	ethylbenzene
108-88-3	toluene
	4-methylpentan-2-one
80-62-6	methyl methacrylate

· Proposition 65

-	· Chemicals known to cause cancer:		
100-41-4	ethylbenzene	* 1-2.49%	
108-10-1	4-methylpentan-2-one	* 1-2.49%	
· Chemicals known to cause reproductive toxicity for females:			
70657-70	-4 2-methoxypropyl acetate	<0.01%	

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

	Chemicals known to cause developmental toxicity:	
108-88-3	toluene	1-2.49%
108-10-1	4-methylpentan-2-one	1-2.49%

· Carcinogenic categories

· E	· EPA (Environmental Protection Agency)		
1330-20-7	xylene	I	5-9.99%
100-41-4	ethylbenzene	D	1-2.49%
78-93-3	butanone	I	1-2.49%
108-88-3	toluene	11	1-2.49%
108-10-1	4-methylpentan-2-one	I	1-2.49%
80-62-6	methyl methacrylate	E, NL	≥0.1-<0.5%

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· T	LV (Threshold Limit Value)	
1330-20-7	xylene	A4
100-41-4	ethylbenzene	А3
108-88-3	toluene	A4
	cyclohexanone	А3
67-63-0	propan-2-ol	A4
80-62-6	methyl methacrylate	A4

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

None of the ingredients is listed.

· 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 08/30/2021 / 266
  - · Abbreviations and acronvms:

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

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

Skin Sens. 1: Skin sensitisation - Category 1

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

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

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# Safety Data Sheet acc. to OSHA HCS

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\* Data compared to the previous version altered.

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