ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 08/03/2017 Version number 7 Reviewed on 08/03/2017

1 Identification

· **Product identifier**
· **Product number** LFC201B
· **Trade name: UR CLEAR PRECAT SELF-S 80SH**
· **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.

GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.

GHS07

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**

GHS02 GHS05 GHS07

· **Signal word** Danger

· **Hazard-determining components of labeling:**
butan-1-ol
ethyl acetate
2-methylpropan-1-ol
isobutyl acetate
· **Hazard statements**
H225 Highly flammable liquid and vapor.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.

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· **Precautionary statements**

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
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.
P310	Immediately call a POISON CENTER/doctor.
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 = 1
Fire = 3
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = 1
Fire = 3
Reactivity = 0

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3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture: consisting of the following components.

· **Dangerous components:**		
141-78-6	ethyl acetate Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STOT SE 3, H336	20-24.9%
110-19-0	isobutyl acetate Flam. Liq. 2, H225 STOT SE 3, H336	15-19.9%
123-86-4	n-butyl acetate Flam. Liq. 3, H226 STOT SE 3, H336	12.5-15%
67-63-0	propan-2-ol Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STOT SE 3, H336	5-9.99%
71-36-3	butan-1-ol Flam. Liq. 3, H226 Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	2.5-4.99%
78-93-3	butanone Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STOT SE 3, H336	2.5-4.99%

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78-83-1	2-methylpropan-1-ol Flam. Liq. 3, H226 Eye Dam. 1, H318 Skin Irrit. 2, H315; STOT SE 3, H335-H336	1-2.49%
50-00-0	formaldehyde Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 Muta. 2, H341; Carc. 1B, H350 Skin Corr. 1B, H314 Skin Sens. 1, H317	<0.1%

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4 First-aid measures

· **Description of first aid measures**
· **General information:**
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; consult doctor in case of complaints.
· **After skin contact:** Generally the product does not irritate the skin.
· **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, 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**
Formation of toxic gases is possible during heating or in case of fire.
· **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.

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6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
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.

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· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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:		
141-78-6	ethyl acetate	1,200 ppm
110-19-0	isobutyl acetate	450 ppm
123-86-4	n-butyl acetate	5 ppm
67-63-0	propan-2-ol	400 ppm
71-36-3	butan-1-ol	60 ppm
78-93-3	butanone	200 ppm
78-83-1	2-methylpropan-1-ol	150 ppm

· PAC-2:		
141-78-6	ethyl acetate	1,700 ppm
110-19-0	isobutyl acetate	1300* ppm
123-86-4	n-butyl acetate	200 ppm
67-63-0	propan-2-ol	2000* ppm
71-36-3	butan-1-ol	800 ppm
78-93-3	butanone	2700* ppm
78-83-1	2-methylpropan-1-ol	1,300 ppm

· PAC-3:		
141-78-6	ethyl acetate	10000** ppm
110-19-0	isobutyl acetate	7500** ppm
123-86-4	n-butyl acetate	3000* ppm
67-63-0	propan-2-ol	12000** ppm
71-36-3	butan-1-ol	8000** ppm
78-93-3	butanone	4000* ppm
78-83-1	2-methylpropan-1-ol	8000* ppm

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Protect against electrostatic charges.
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.

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· **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.

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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:	
141-78-6 ethyl acetate	
PEL	Long-term value: 1400 mg/mį, 400 ppm
REL	Long-term value: 1400 mg/mį, 400 ppm
TLV	Long-term value: 1440 mg/mį, 400 ppm
110-19-0 isobutyl acetate	
PEL	Long-term value: 700 mg/mį, 150 ppm
REL	Long-term value: 700 mg/mį, 150 ppm
TLV	Short-term value: 172 mg/mį, 150 ppm Long-term value: 238 mg/mį, 50 ppm
123-86-4 n-butyl acetate	
PEL	Long-term value: 710 mg/mį, 150 ppm
REL	Long-term value: 950 mg/mį, 200 ppm
TLV	Short-term value: 712 mg/mį, 150 ppm Long-term value: 238 mg/mį, 50 ppm
67-63-0 propan-2-ol	
PEL	Long-term value: 980 mg/mį, 400 ppm
REL	Short-term value: 1225 mg/mį, 500 ppm Long-term value: 980 mg/mį, 400 ppm
TLV	Short-term value: 984 mg/mį, 400 ppm Long-term value: 492 mg/mį, 200 ppm BEI
71-36-3 butan-1-ol	
PEL	Long-term value: 300 mg/mį, 100 ppm
REL	Ceiling limit value: 150 mg/mį, 50 ppm Skin
TLV	Long-term value: 61 mg/mį, 20 ppm

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78-93-3 butanone	
PEL	Long-term value: 590 mg/mį, 200 ppm
REL	Short-term value: 885 mg/mį, 300 ppm Long-term value: 590 mg/mį, 200 ppm
TLV	Short-term value: 885 mg/mį, 300 ppm Long-term value: 590 mg/mį, 200 ppm BEI
78-83-1 2-methylpropan-1-ol	
PEL	Long-term value: 300 mg/mį, 100 ppm
REL	Long-term value: 150 mg/mį, 50 ppm
TLV	Long-term value: 152 mg/mį, 50 ppm
50-00-0 formaldehyde	
PEL	Short-term value: 2 ppm Long-term value: 0.75 ppm see 29 CFR 1910.1048(c)
REL	Long-term value: 0.016 ppm Ceiling limit value: 0.1* ppm *15-min; See Pocket Guide App. A
TLV	Short-term value: 0.37 mg/mį, 0.3 ppm Long-term value: 0.12 mg/mį, 0.1 ppm DSEN; RSEN

· **Ingredients with biological limit values:**	
67-63-0 propan-2-ol	
BEI	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
78-93-3 butanone	
BEI	2 mg/L Medium: urine Time: end of shift Parameter: MEK

· **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.
Avoid contact with the eyes and skin.

· **Breathing equipment:** Not required.

· **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 .

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· **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

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
· **Form:**	Fluid
· **Color:**	According to product specification
· **Odor:**	Characteristic
· **Odor threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
· **Melting point/Melting range:**	Undetermined.
· **Boiling point/Boiling range:**	77°C (°F)
· **Flash point:**	-4°C (°F)
· **Flammability (solid, gaseous):**	Not applicable.
· **Ignition temperature:**	340°C (°F)
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· **Explosion limits:**	
· **Lower:**	1.2 Vol %
· **Upper:**	12 Vol %
· **Vapor pressure at 20°C (68 °F):**	97 hPa (mm Hg)
· **Density at 20°C (68 °F):**	0.955 g/cmį (lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
· **Water:**	Not miscible or difficult to mix.
· **Partition coefficient (n-octanol/water):**	Not determined.

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· **Viscosity:**
· **Dynamic:** Not determined.
· **Kinematic at 20°C (68 °F):** 40 s (ISO 4 mm)
· **Oxidising properties:** N.A.

· **Solvent content:**
· **VOC content:** 74.44 %
710.9 g/l / 5.93 lb/gl

· **Solids content:** 25.5 %

· **Other information (HAPS)**

95-47-6	o-xylene	≥0.1-<0.5%
50-00-0	formaldehyde	<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** Vapours may form explosive mixtures with air
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:**

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

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11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

141-78-6 ethyl acetate		
Oral	LD50	4,934 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Dermal	LD50	20,001 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	1,600 mg/l (rat/szczur/mouse/souris/Maus/ratón)
	LC0	22.6 ppm (mouse)
110-19-0 isobutyl acetate		
Oral	LD50	13,400 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	17,401 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	31 mg/l (rat/szczur/mouse/souris/Maus/ratón)
123-86-4 n-butyl acetate		
Oral	LD50	10,760 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	14,000 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	21.1 mg/l (rat/szczur/mouse/souris/Maus/ratón)

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67-63-0 propan-2-ol		
Oral	LD50	4,710 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	12,800 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	72.6 mg/l (rat/szczur/mouse/souris/Maus/ratón)
71-36-3 butan-1-ol		
Oral	LD50	790 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	3,400 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	8,000 mg/l (rat/szczur/mouse/souris/Maus/ratón)
78-93-3 butanone		
Oral	LD50	2,001 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	5,001 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	21 mg/l (rat/szczur/mouse/souris/Maus/ratón)
78-83-1 2-methylpropan-1-ol		
Oral	LD50	2,460 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	3,400 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4h.	19.2 mg/l (rat/szczur/mouse/souris/Maus/ratón)
50-00-0 formaldehyde		
Oral	LD50	100 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	271 mg/kg (Con)

· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:**
Strong caustic effect.
Strong irritant with the danger of severe eye injury.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
Irritant
Causes serious eye damage.
May cause drowsiness or dizziness.

· **Carcinogenic categories**

· IARC (International Agency for Research on Cancer - Cl. 1 and 2)		
50-00-0	formaldehyde	1

· NTP (National Toxicology Program)		
50-00-0	formaldehyde	<0.1%

· OSHA-Ca (Occupational Safety & Health Administration)		
50-00-0	formaldehyde	<0.1%

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12 Ecological information

· **Toxicity**

· Aquatic toxicity:	
141-78-6 ethyl acetate	
EC50	165 mg/l (daphnia) (48 h)
LC50 (96h)	230 mg/l (Fish)

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110-19-0 isobutyl acetate	
EC50	370 mg/l (algae) (72 h)
	25 mg/l (daphnia)
LC50 (96h)	17 mg/l (Fish)
123-86-4 n-butyl acetate	
EC50	648 mg/l (algae) (72 h)
	44 mg/l (daphnia) (48 h)
LC50 (96h)	18 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)
78-93-3 butanone	
EC50	2,029 mg/l (algae) (96 h)
	308 mg/l (daphnia) (48 h)
LC50 (96h)	2,993 mg/l (Fish)
78-83-1 2-methylpropan-1-ol	
EC50	1,799 mg/l (algae) (72 h)
	1,100 mg/l (daphnia) (48 h)
LC50 (96h)	1,430 mg/l (Fish)
50-00-0 formaldehyde	
EC50	11.3 mg/l (daphnia) (48 h)
LC50 (96h)	22.6 mg/l (Fish)

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

· **Substances Easily biodegradable**		
141-78-6	ethyl acetate	.
110-19-0	isobutyl acetate	.
123-86-4	n-butyl acetate	.
67-63-0	propan-2-ol	.
78-93-3	butanone	.
78-83-1	2-methylpropan-1-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 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
· **Other adverse effects** No further relevant information available.

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13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Hand over to hazardous waste disposers.
Dispose of contents and container in accordance with local state and federal regulations.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**
· **DOT** NA1263
· **IMDG, IATA** UN1263

· **UN proper shipping name**
· **DOT** Paint
· **IMDG, IATA** PAINT

· **Transport hazard class(es)**

· **DOT**

· **Class** 3 Flammable liquids
· **Label** 3
· **Class** 3 Flammable liquids
· **Label** 3

· **IMDG, 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
· **Danger code (Kemler):** 33
· **EMS Number:** F-E,S-E
· **Stowage Category** B

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

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· **Transport/Additional information:**

· **IMDG**
· **Limited quantities (LQ)** 5L
· **Excepted quantities (EQ)** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

· **UN "Model Regulation":** UN 1263 PAINT, SPECIAL PROVISION 640D, 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
· **SARA**

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

50-00-0	formaldehyde	<0.1%

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

67-63-0	propan-2-ol	5-9.99%
71-36-3	butan-1-ol	2.5-4.99%
78-93-3	butanone	2.5-4.99%
95-47-6	o-xylene	≥0.1-<0.5%
50-00-0	formaldehyde	<0.1%

· **TSCA (Toxic Substances Control Act):**
All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

50-00-0	formaldehyde	*	<0.1%

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

71-36-3	butan-1-ol	D	2.5-4.99%
78-93-3	butanone	I	2.5-4.99%
95-47-6	o-xylene	I	≥0.1-<0.5%
50-00-0	formaldehyde	B1	<0.1%

· **TLV (Threshold Limit Value established by ACGIH)**

67-63-0	propan-2-ol	A4
95-47-6	o-xylene	A4

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50-00-0	formaldehyde	A2

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

50-00-0	formaldehyde	<0.1%

· **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** 08/03/2017 / 6
· **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, 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 ï Category 2
Flam. Liq. 3: Flammable liquids ï Category 3
Acute Tox. 3: Acute toxicity ï Category 3
Acute Tox. 4: Acute toxicity ï Category 4
Skin Corr. 1B: Skin corrosion/irritation ï Category 1B
Skin Irrit. 2: Skin corrosion/irritation ï Category 2
Eye Dam. 1: Serious eye damage/eye irritation ï Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation ï Category 2A
Skin Sens. 1: Skin sensitisation ï Category 1
Muta. 2: Germ cell mutagenicity ï Category 2
Carc. 1B: Carcinogenicity ï Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) ï 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.**