Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 12/03/2015 Version number 7 Reviewed on 11/27/2015

1 Identification

· **Product identifier**
· **Product number** LFC2014
· **Trade name: UR CLEAR PRECAT SELF-S 20SH**
· **Application of the substance / the mixture** For professional use

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
IVM Chemicals srl
Viale della Stazione 3 - 27020 Parona (PV) Italy tel +39 038425441

· **Information department:**
Environmental Health and safety office
hseoffice@ivmchemicals.com
· **Emergency telephone number:**
ChemTel Expert Assistance Hotline/SDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

2 Hazard(s) identification

· **Classification of the substance or mixture**

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 organs through prolonged or repeated exposure.

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**

GHS02 GHS05 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
butan-1-ol

(Contd. on page 2)

(Contd. of page 1)

toluene
ethyl acetate
2-methylpropan-1-ol

· **Hazard statements**
H225 Highly flammable liquid and vapor.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.

· **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

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture: consisting of the following components.

· **Dangerous components:**		
110-19-0	isobutyl acetate Flam. Liq. 2, H225	20-24.9%
141-78-6	ethyl acetate Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	12,5-15%
123-86-4	n-butyl acetate Flam. Liq. 3, H226 STOT SE 3, H336	10-<15%
67-63-0	propan-2-ol Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	5-9,99%

(Contd. on page 3)

ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 12/03/2015 Version number 7 Reviewed on 11/27/2015

Product number LFC2014
Trade name: UR CLEAR PRECAT SELF-S 20SH

(Contd. of page 2)

78-93-3	butanone Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	2,5-4,99%
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%
108-88-3	toluene Flam. Liq. 2, H225 Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304 Skin Irrit. 2, H315; STOT SE 3, H336 Aquatic Chronic 3, H412	2,5-4,99%
77-90-7	tributyl O-acetylcitrate Aquatic Acute 3, H402; Aquatic Chronic 3, H412	2,5-4,99%
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	1-2,49%
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%
100-41-4	ethylbenzene Flam. Liq. 2, H225 Carc. 2, H351; STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H332	0,5-1%
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:**
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.

· **After inhalation:**
In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Take off immediately all contaminated clothing, include underwear and shoes (if necessary).
Rinse thoroughly with plenty of water for at least 20 minutes and take medical advise. If medical advise is needed have products container or label at hand.

· **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist , consult a doctor.

· **After swallowing:** Do not induce vomiting; immediately call for medical help.

(Contd. on page 4)

(Contd. of page 3)

· **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**
During heating or in case of fire poisonous gases are produced.
· **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**
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).
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.

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7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
Protect against electrostatic charges.
Keep respiratory protective device available.
Use explosion-proof apparatus / fittings and spark-proof tools.
· **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

(Contd. on page 5)

(Contd. of page 4)

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:**	
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: NIC-712 mg/mį, NIC-150 ppm Long-term value: (713) NIC-238 mg/mį, (150) NIC-50 ppm
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
123-86-4 n-butyl acetate	
PEL	Long-term value: 710 mg/mį, 150 ppm
REL	Short-term value: 950 mg/mį, 200 ppm Long-term value: 710 mg/mį, 150 ppm
TLV	Short-term value: (950) NIC-712 mg/mį, (200) NIC-150 ppm Long-term value: (713) NIC-238 mg/mį, (150) NIC-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
78-93-3 butanone	
PEL	Long-term value: 590 mg/mį, 200 ppm

(Contd. on page 6)

(Contd. of page 5)

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
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
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

· **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
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)
1330-20-7 xylene	
BEI	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids

· **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.

(Contd. on page 7)

(Contd. of page 6)

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:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **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

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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 (171 °F)
· **Flash point:**	-4 °C (25 °F)
· **Flammability (solid, gaseous):**	Not applicable.
· **Ignition temperature:**	340 °C (644 °F)
· **Decomposition temperature:**	Not determined.

(Contd. on page 8)

ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 12/03/2015 Version number 7 Reviewed on 11/27/2015

Product number LFC2014
Trade name: UR CLEAR PRECAT SELF-S 20SH

(Contd. of page 7)

· **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:**	1.1 Vol %
· **Upper:**	12.0 Vol %
· **Vapor pressure at 20 °C (68 °F):**	105 hPa (79 mm Hg)
· **Density at 20 °C (68 °F):**	0.926 g/cmį (7.727 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
· **Water:**	Not miscible or difficult to mix.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
· **Dynamic:**	Not determined.
· **Kinematic at 20 °C (68 °F):**	25 s (ISO 6 mm)
· **Oxidising properties:**	N.A.
· **Solvent content:**	
· **VOC content:**	73.5 % 680.2 g/l / 5.68 lb/gl
· **Solids content:**	26.5 %

· **Other information (HAPS)**

108-88-3	toluene	2,5-4,99%
1330-20-7	xylene	1-2,49%
100-41-4	ethylbenzene	0,5-1%
1330-20-7	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**
Reacts with strong acids and oxidizing agents.
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

(Contd. on page 9)

(Contd. of page 8)

11 Toxicological information

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

· LD/LC50 values that are relevant for classification:		
110-19-0 isobutyl acetate		
Oral	LD50	13400 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	17401 mg/kg (Con)
Inhalative	LC50/4 h	31 mg/l (rat/szczur/mouse/souris/Maus/ratón)
141-78-6 ethyl acetate		
Oral	LD50	4934 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Dermal	LD50	20001 mg/kg (Con)
Inhalative	LC50/4 h	1600 mg/l (rat/szczur/mouse/souris/Maus/ratón)
	LC0	22.6 ppm (mouse)
123-86-4 n-butyl acetate		
Oral	LD50	10760 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	14000 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	21.1 mg/l (rat/szczur/mouse/souris/Maus/ratón)
67-63-0 propan-2-ol		
Oral	LD50	4710 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	12800 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	72.6 mg/l (rat/szczur/mouse/souris/Maus/ratón)
78-93-3 butanone		
Oral	LD50	2001 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	5001 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50	21 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	3400 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	8000 mg/l (rat/szczur/mouse/souris/Maus/ratón)
108-88-3 toluene		
Oral	LD50	5000 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	12124 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	25.7 mg/l (rat/szczur/mouse/souris/Maus/ratón)
77-90-7 tributyl O-acetylcitrate		
Oral	LD50	31500 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
1330-20-7 xylene		
Oral	LD50	3523 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	1701 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
78-83-1 2-methylpropan-1-ol		
Oral	LD50	2460 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	3400 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50	18.2 mg/l (rat/szczur/mouse/souris/Maus/ratón) (6 h)

(Contd. on page 10)

(Contd. of page 9)

100-41-4 ethylbenzene		
Oral	LD50	3500 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	15486 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	17.2 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:** Irritant to skin and mucous membranes.
· **on the eye:**
Strong caustic effect.
Strong irritant with the danger of severe eye injury.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:** Irritant

· **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 ofethylbenzene.

· **IARC (International Agency for Research on Cancer - Cl. 1 and 2)**		
100-41-4	ethylbenzene	2B
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%

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**	
110-19-0 isobutyl acetate	
EC50	370 mg/l (algae) (72 h)
	25 mg/l (daphnia)
LC50 (96h)	17 mg/l (Fish)
141-78-6 ethyl acetate	
EC50	165 mg/l (daphnia) (48 h)
LC50 (96h)	230 mg/l (Fish)

(Contd. on page 11)

(Contd. of page 10)

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	1001 mg/l (algae) (72 h)
	10000 mg/l (daphnia) (24 h)
LC50 (96h)	9640 mg/l (Fish)
78-93-3 butanone	
EC50	2029 mg/l (algae) (96 h)
	308 mg/l (daphnia) (48 h)
LC50 (96h)	2993 mg/l (Fish)
108-88-3 toluene	
EC50	134 mg/l (algae) (3 h)
	3.78 mg/l (daphnia) (48 h)
	58 mg/l (Fish)
77-90-7 tributyl O-acetylcitrate	
LC50 (96h)	60 mg/l (Fish)
78-83-1 2-methylpropan-1-ol	
EC50	1799 mg/l (algae) (72 h)
	1100 mg/l (daphnia) (48 h)
LC50 (96h)	1430 mg/l (Fish)
100-41-4 ethylbenzene	
EC50	75 mg/l (daphnia) (48 h)
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.
· **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.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
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.

(Contd. on page 12)

ivm Chemicals
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Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 12/03/2015 Version number 7 Reviewed on 11/27/2015

Product number LFC2014
Trade name: UR CLEAR PRECAT SELF-S 20SH

(Contd. of page 11)

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

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14 Transport information

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

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

· **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

(Contd. on page 13)

ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 12/03/2015 Version number 7 Reviewed on 11/27/2015

Product number LFC2014
Trade name: UR CLEAR PRECAT SELF-S 20SH

(Contd. of page 12)

· **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**

Phosphoric acid, butyl ester

· **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%
78-93-3	butanone	2,5-4,99%
71-36-3	butan-1-ol	2,5-4,99%
108-88-3	toluene	2,5-4,99%
1330-20-7	xylene	1-2,49%
100-41-4	ethylbenzene	0,5-1%
1330-20-7	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:**

100-41-4	ethylbenzene	*	0,5-1%
50-00-0	formaldehyde	*	<0.1%

· **Chemicals known to cause reproductive toxicity for females:**

108-88-3	toluene	2,5-4,99%

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

108-88-3	toluene	2,5-4,99%

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

78-93-3	butanone	I	2,5-4,99%
71-36-3	butan-1-ol	D	2,5-4,99%
108-88-3	toluene	II	2,5-4,99%
1330-20-7	xylene	I	1-2,49%
100-41-4	ethylbenzene	D	0,5-1%
1330-20-7	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
108-88-3	toluene	A4

(Contd. on page 14)

(Contd. of page 13)

1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3
1330-20-7	xylene	A4
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** 12/03/2015 / 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, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 3: Acute toxicity, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Muta. 2: Germ cell mutagenicity, Hazard Category 2
Carc. 1B: Carcinogenicity, Hazard Category 1B
Carc. 2: Carcinogenicity, Hazard Category 2
Repr. 2: Reproductive toxicity, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Acute 3: Hazardous to the aquatic environment - AcuteHazard, Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3
· **Sources**
Directive 1999/45/EC and following amendments
Directive 67/548/EEC and following amendments and adjustments
Agency ECHA web site
INRS Fiche Toxicologique

(Contd. on page 15)

(Contd. of page 14)

IARC International agency for research on cancer

· *** Data compared to the previous version altered.**