

## 1 Identification

- **Product identifier**
  - *Product number* LGA83
  - *Trade name:* **PU CLEAR TOPCOAT 35SH**
    - *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.



GHS06 Skull and crossbones

Acute Tox. 3      H331 Toxic if inhaled.



GHS08 Health hazard

Carc. 2      H351 Suspected of causing cancer.

STOT RE 2      H373 May cause damage to the hearing organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2      H315 Causes skin irritation.

Eye Irrit. 2A      H319 Causes serious eye irritation.

STOT SE 3      H335 May cause respiratory irritation.

Aquatic Chronic 3      H412 Harmful to aquatic life with long lasting effects.

- **Label elements**

- *GHS label elements*

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

- *Hazard pictograms*



GHS02



GHS06



GHS07



GHS08

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· **Signal word** Danger

· **Hazard-determining components of labeling:**

xylene  
ethylbenzene  
cyclohexanone

· **Hazard statements**

H225 Highly flammable liquid and vapor.  
H331 Toxic if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H351 Suspected of causing cancer.  
H335 May cause respiratory irritation.  
H373 May cause damage to the hearing organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.

· **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)**



· **HMIS-ratings (scale 0 - 4)**



### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

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	30-49.9%
100-41-4	ethylbenzene Flam. Liq. 2, H225 Carc. 2, H351; STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H332	5-9.99%

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110-19-0	isobutyl acetate <div> <div>Flam. Liq. 2, H225</div> <div>STOT SE 3, H336</div> </div>	2.5-4.99%
78-93-3	butanone <div> <div>Flam. Liq. 2, H225</div> <div>Eye Irrit. 2A, H319; STOT SE 3, H336</div> </div>	2.5-4.99%
108-94-1	cyclohexanone <div> <div>Flam. Liq. 3, H226</div> <div>Eye Dam. 1, H318</div> <div>Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315</div> </div>	1-2.49%
64-17-5	ethanol <div> <div>Flam. Liq. 2, H225</div> <div>Eye Irrit. 2A, H319</div> </div>	≥0.1-<0.5%

## 4 First-aid measures

### · Description of first aid measures

#### · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

personal protective equipment for first aid responders is recommended. (please see section 8)

#### · After inhalation:

Supply fresh air or oxygen; call for 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.

Take off immediately all contaminated clothing, include underwear and shoes (if necessary).

Rinse thoroughly with plenty of water for at least 20 minutes and take medical advise. If medical advise is needed have products container or label at hand.

#### · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist , consult a doctor.

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

#### · Information for doctor:

##### · Most important symptoms and effects, both acute and delayed

For symptoms and effects caused by substances, refer to Section 11.

##### · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## 5 Fire-fighting measures

### · Extinguishing media

· Suitable extinguishing agents: Alcohol resistant foam, 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.

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· **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**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources

· **Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

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**

· **PAC-1:**

1330-20-7	xylene	130 ppm
100-41-4	ethylbenzene	33 ppm
110-19-0	isobutyl acetate	450 ppm
78-93-3	butanone	200 ppm
108-94-1	cyclohexanone	60 ppm
7631-86-9	silicon dioxide, chemically prepared	18 mg/m
9002-88-4	Polyethylene low density	16 mg/m
123-86-4	n-butyl acetate	5 ppm
141-78-6	ethyl acetate	1,200 ppm

· **PAC-2:**

1330-20-7	xylene	920* ppm
100-41-4	ethylbenzene	1100* ppm
110-19-0	isobutyl acetate	1300* ppm
78-93-3	butanone	2700* ppm
108-94-1	cyclohexanone	830 ppm
7631-86-9	silicon dioxide, chemically prepared	740 mg/m
9002-88-4	Polyethylene low density	170 mg/m
123-86-4	n-butyl acetate	200 ppm
141-78-6	ethyl acetate	1,700 ppm

· **PAC-3:**

1330-20-7	xylene	2500* ppm
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100-41-4	ethylbenzene	1800* ppm
110-19-0	isobutyl acetate	7500** ppm
78-93-3	butanone	4000* ppm
108-94-1	cyclohexanone	5000* ppm
7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m
9002-88-4	Polyethylene low density	1,000 mg/m
123-86-4	n-butyl acetate	3000* ppm
141-78-6	ethyl acetate	10000** ppm

## 7 Handling and storage

### · Handling:

#### · Precautions for safe handling

- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- 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 other constituents have no known exposure limits.

#### 100-41-4 ethylbenzene

PEL Long-term value: 435 mg/m , 100 ppm

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REL Short-term value: 545 mg/m , 125 ppm  
Long-term value: 435 mg/m , 100 ppm  
TLV Long-term value: 87 mg/m , 20 ppm  
BEI

**110-19-0 isobutyl acetate**

PEL Long-term value: 700 mg/m , 150 ppm  
REL Long-term value: 700 mg/m , 150 ppm  
TLV Short-term value: 712 mg/m , 150 ppm  
Long-term value: 238 mg/m , 50 ppm

**78-93-3 butanone**

PEL Long-term value: 590 mg/m , 200 ppm  
REL Short-term value: 885 mg/m , 300 ppm  
Long-term value: 590 mg/m , 200 ppm  
TLV Short-term value: 885 mg/m , 300 ppm  
Long-term value: 590 mg/m , 200 ppm  
BEI

**· Ingredients with biological limit values:**

**1330-20-7 xylene**

BEI 1.5 g/g creatinine  
Medium: urine  
Time: end of shift  
Parameter: Methylhippuric acids

**100-41-4 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-quantitative)  
-  
Medium: end-exhaled air  
Time: not critical  
Parameter: Ethyl benzene (semi-quantitative)

**78-93-3 butanone**

BEI 2 mg/L  
Medium: urine  
Time: end of shift  
Parameter: MEK

**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, semi-quantitative)  
  
8 mg/L  
Medium: urine  
Time: end of shift  
Parameter: Cyclohexanol with hydrolysis (nonspecific, semi-quantitative)

**· Additional information:** The lists that were valid during the creation were used as basis.

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· **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.

· **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

## 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:** 78 °C (172.4 °F)

· **Flash point:** -4 °C (24.8 °F)

· **Flammability (solid, gaseous):** Not applicable.

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· <b>Ignition temperature:</b>	>370 °C (>698 °F)	
· <b>Decomposition temperature:</b>	Not determined.	
· <b>Auto igniting:</b>	Product is not selfigniting.	
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.	
· <b>Explosion limits:</b>		
· <b>Lower:</b>	1 Vol %	
· <b>Upper:</b>	11.5 Vol %	
· <b>Vapor pressure at 20 °C (68 °F):</b>	105 hPa (78.8 mm Hg)	
· <b>Density at 20 °C (68 °F):</b>	0.98 g/cm (8.178 lbs/gal)	
· <b>Relative density</b>	Not determined.	
· <b>Vapor density</b>	Not determined.	
· <b>Evaporation rate</b>	Not determined.	
· <b>Solubility in / Miscibility with</b>		
· <b>Water:</b>	Not miscible or difficult to mix.	
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.	
· <b>Viscosity:</b>		
· <b>Dynamic:</b>	Not determined.	
· <b>Kinematic at 20 °C (68 °F):</b>	25 s (ISO 6 mm)	
· <b>Oxidising properties:</b>	N.A.	
· <b>Solvent content:</b>		
· <b>Water:</b>	0.0 %	
· <b>VOC content:</b>	56.41 %	
	552.8 g/l / 4.61 lb/gl	
· <b>Solids content:</b>	43.6 %	
· <b>Other information (HAPS)</b>		
1330-20-7	xylene	30-49.9%
100-41-4	ethylbenzene	5-9.99%
· <b>Other information</b>	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:** No further relevant information available.
- **Hazardous decomposition products:**  
  
in case of possible formation of combustion:  
Carbon monoxide and carbon dioxide

US

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## 11 Toxicological information

### · Information on toxicological effects

#### · Acute toxicity:

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

#### **1330-20-7 xylene**

Oral	LD50.	3,523 mg/kg (mouse)
Dermal	LD50.	12,126 mg/kg (rabbit)
Inhalative	LC50/4h.	27.571 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)

#### **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)

#### **78-93-3 butanone**

Oral	LD50	2,001 mg/kg (mouse)
Dermal	LD50	5,001 mg/kg (rabbit)
Inhalative	LC50/4 h	21 mg/l (mouse)

#### **108-94-1 cyclohexanone**

Oral	LD50	1,890 mg/kg (mouse)
Dermal	LD50	1,100 mg/kg (rabbit)
Inhalative	LC50/4 h	6.3 mg/l (mouse)

#### **64-17-5 ethanol**

Oral	LD50	10,470 mg/kg (mouse)
Dermal	LD50	20,000 mg/kg (rabbit)
Inhalative	LC50/4 h	124.7 mg/l (mouse)

#### · Primary irritant effect:

· on the skin: Irritant to skin and mucous membranes.

· on the eye: Irritating effect.

· Sensitization: No sensitizing effects known.

#### · Additional toxicological information:

Toxic

Irritant

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

May cause damage to the hearing organs through prolonged or repeated exposure.

Contains Fatty acids, tallow, oleylamine compounds. May produce an allergic reaction.

#### · Carcinogenic categories

Quartz.

No significant exposure to quartz is thought to occur during the use of products in which quartz is bound to other materials, such as resin, and for quantities present in the formula Ethylbenzene

From IARC MONOGRAPHS VOLUME 77/2000

Human carcinogenicity data

Two studies of workers potentially exposed to ethylbenzene in a production plant and a

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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
14808-60-7	Quartz (SiO <sub>2</sub> )	1
· NTP (National Toxicology Program)		
14808-60-7	Quartz (SiO <sub>2</sub> )	<0.1%
· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

## 12 Ecological information

- **Toxicity** Harmful to aquatic life with long lasting effects.

· Aquatic toxicity:	
<b>1330-20-7 xylene</b>	
EC50	2.2 mg/l (algae) (72h)
LC50 48h	1 mg/l (daphnia)
LC50 (96h)	2.6 mg/l (Fish)
<b>100-41-4 ethylbenzene</b>	
EC50	438 mg/l (algae) (72h)
	1.8 mg/l (daphnia) (48 h)
LC50 (96h)	12.1 mg/l (Fish)
<b>110-19-0 isobutyl acetate</b>	
EC50	370 mg/l (algae) (72 h)
	25 mg/l (daphnia)
LC50 (96h)	17 mg/l (Fish)
<b>78-93-3 butanone</b>	
EC50	2,029 mg/l (algae) (96 h)
	308 mg/l (daphnia) (48 h)
LC50 (96h)	2,993 mg/l (Fish)
<b>108-94-1 cyclohexanone</b>	
EC50	101 mg/l (algae) (72 h)
	101 mg/l (daphnia)
LC50 (96h)	527 mg/l (Fish)
<b>64-17-5 ethanol</b>	
EC50	5,012 mg/l (daphnia) (48 h)
LC50 (96h)	15.3 mg/l (Fish)

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

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· **Substances Easily biodegradable**

1330-20-7	xylene	.
100-41-4	ethylbenzene	.
110-19-0	isobutyl acetate	.
78-93-3	butanone	.
108-94-1	cyclohexanone	.
64-17-5	ethanol	.

· **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

- **Remark:** Harmful to fish

· **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.  
Harmful to aquatic organisms

· **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.

## 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

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· <b>Label</b>	3
· <b>IMDG, IATA</b>	
	
· <b>Class</b>	3 Flammable liquids
· <b>Label</b>	3
· <b>Packing group</b>	
· <b>DOT, IMDG, IATA</b>	II
· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Warning: Flammable liquids
· <b>Danger code (Kemler):</b>	33
· <b>EMS Number:</b>	F-E, S-E
· <b>Stowage Category</b>	B
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1263 PAINT, SPECIAL PROVISION 640D, 3, II

## 15 Regulatory information

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

Requirements of Federal Register

Directive 96/82/EC

Toxic

Limit 1: 50 t

Limit 2: 200 t

### · SARA

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

None of the ingredients is listed.

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

1330-20-7	xylene	30-49.9%
100-41-4	ethylbenzene	5-9.99%
78-93-3	butanone	2.5-4.99%
78-93-3	butanone	<0.01%
67-63-0	propan-2-ol	<0.01%

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

All ingredients are listed.

· **TSCA new (21st Century Act) (Substances not listed)**

64-17-5 ethanol

· **Proposition 65**

· **Chemicals known to cause cancer:**

Quartz (SiO<sub>2</sub>) only in bound form

100-41-4	ethylbenzene	*	5-9.99%
14808-60-7	Quartz (SiO <sub>2</sub> )	*	<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:**

64-17-5	ethanol	≥0.1-<0.5%
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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

1330-20-7	xylene	I	30-49.9%
100-41-4	ethylbenzene	D	5-9.99%
78-93-3	butanone	I	2.5-4.99%
78-93-3	butanone	I	<0.01%

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

1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3
108-94-1	cyclohexanone	A3
64-17-5	ethanol	A3
14808-60-7	Quartz (SiO <sub>2</sub> )	A2
67-63-0	propan-2-ol	A4

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

14808-60-7	Quartz (SiO <sub>2</sub> )	<0.1%
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· **National regulations:**

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

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

## 16 Other information

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

· **Department issuing SDS:** IVM Chemicals Srl

· **Contact:** See emergency phone

· **Date of preparation / last revision** 07/12/2018 / 63

· **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

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# Safety Data Sheet

## 29 CFR Parts 1910 1915 1926

Printing date 07/12/2018

Version number 64

Reviewed on 03/29/2018

**Product number LGA83****Trade name: PU CLEAR TOPCOAT 35SH**

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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  
 Acute Tox. 3: Acute toxicity . Category 3  
 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  
 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

• \* Data compared to the previous version altered.

US