

Printing date 09/18/2015

Version number 51

Reviewed on 09/18/2015

#### 1 Identification

- · Product identifier
  - · Product number LGA20
  - · Trade name: CLEAR MATT PU TOPCOAT
  - $\cdot \textit{Relevant identified uses of the substance or \textit{mixture and uses advised against}}$

Paint and relative material only for wood

- · Application of the substance / the mixture For professional use
- · Details of the supplier of the safety data sheet
  - · Manufacturer/Supplier:

IVM Chemicals srl

Viale della Stazione 3 - 27020 Parona (PV) Italy tel +39 038425441

· Information department:

Environmental Health and safety office

hseoffice@ivmchemicals.com

· Emergency telephone number:

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

### 2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

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



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

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

STOT RE 2 H373 May cause damage to the 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.

#### · Label elements

· GHS label elements

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

· Hazard pictograms







GHS02 GHS07 GHS08

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

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ethyl acetate

#### · Hazard statements

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H335 May cause respiratory irritation.

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

· 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): Remove/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 = 1 Fire = 4 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = \*1 Fire = 4 Reactivity = 0

### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

1330-20-7	xylene	30-49.9%
	<ul> <li>Flam. Liq. 3, H226</li> <li>STOT RE 2, H373; Asp. Tox. 1, H304</li> <li>Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335</li> </ul>	
100-41-4	ethylbenzene	5-9.99%
	<ul> <li>Flam. Liq. 2, H225</li> <li>Carc. 2, H351; STOT RE 2, H373; Asp. Tox. 1, H304</li> <li>Acute Tox. 4, H332</li> </ul>	
110-19-0	isobutyl acetate	5-9.99%
	🚸 Flam. Liq. 2, H225	
141-78-6	ethyl acetate	2.5-4.99%
	<ul> <li>Flam. Liq. 2, H225</li> <li>Eye Irrit. 2, H319; STOT SE 3, H336</li> </ul>	

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108-65-6	2-methoxy-1-methylethyl acetate  § Flam. Liq. 3, H226	20ntd. of page 2)
108-88-3	· · · · · · · · · · · · · · · · · · ·	0.5-<1%

#### 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.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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.
- · 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.

### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
 Ensure adequate ventilation

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Keep away from ignition sources

### · Environmental precautions:

Do not allow product to reach sewage system or any water course.

Prevent seepage into sewage system, workpits and cellars.

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

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.

Do not flush with water or aqueous cleansing agents

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.

### 7 Handling and storage

#### · Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

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.

### · 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:

1330-20-7 xylene

PEL Long-term value: 435 mg/m³, 100 ppm

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REL	9 , 11
<b>-</b>	Long-term value: 435 mg/m³, 100 ppm
TLV	<b>3</b> , 11
	Long-term value: 434 mg/m³, 100 ppm BEI
100-	41-4 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: 87 mg/m³, 20 ppm
	BEI
110-	19-0 isobutyl acetate
PEL	Long-term value: 700 mg/m³, 150 ppm
REL	Long-term value: 700 mg/m³, 150 ppm
TLV	<b>9</b> / 11
	Long-term value: (713) NIC-238 mg/m³, (150) NIC-50 ppm
141-	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: 1440 mg/m³, 400 ppm
	65-6 2-methoxy-1-methylethyl acetate
WE	EL Long-term value: 50 ppm
	· Ingredients with biological limit values:
	0-20-7 xylene
BEI	1.5 g/g creatinine
	Medium: urine Time: end of shift
	Parameter: Methylhippuric acids
100-	41-4 ethylbenzene
	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)

### · 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 skin.

Avoid contact with the eyes and skin.

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#### · 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 · General Information	chemical properties
· Appearance:	
Form:	Fluid
· Color:	According to product specification
· Odor:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
<ul> <li>Melting point/Melting range:</li> </ul>	Undetermined.
· Boiling point/Boiling range:	77 °C (171 °F)
· Flash point:	-4 °C (25 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	315 °C (599 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosivair/vapor mixtures are possible.
· Explosion limits:	
· Lower:	1.0 Vol %

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· Upper:	11.5 Vol %	
· Vapor pressure at 20 °C (68 °F):	97 hPa (73 mm Hg)	
· Density at 20 °C (68 °F):	0.973 g/cm³ (8.12 lbs/gal)	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
· Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wa	ter): Not determined.	
· Viscosity:		
· Dynamic:	Not determined.	
Kinematic at 20 °C (68 °F):	38 s (ISO 6 mm)	
· Oxidising properties:	N.A.	
· Solvent content:		
· VOC content:	56.7 %	
	551.5 g/l / 4.60 lb/gl	
· Solids content:	43.3 %	
Other information (HAPS)		
1330-20-7 xylene		30-49.99
100-41-4 ethylbenzene		5-9,99%
108-88-3 toluene		0.5-<1%
Other information	No further relevant information available.	<u> </u>

# 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 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

### 11 Toxicological information

· Information on toxicological effects Suspected of damaging fertility or the unborn child. · Acute toxicity:

· LD/	$\cdot$ LD/LC50 values that are relevant for classification:				
1330-20-7	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)			

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100-41-4	ethylbenz	ene
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)
110-19-0	sobutyl a	cetate
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 aceta	ate
Oral	LD50	4934 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Dermal	LD50	20001 mg/kg (Con)
Inhalative	LC0	22.6 ppm (mouse)
	LC50/4 h	1600 mg/l (rat/szczur/mouse/souris/Maus/ratón)
108-65-6	2-methoxy	/-1-methylethyl acetate
Oral	LD50	8532 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	5001 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	35.7 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)

### Primary irritant effect:

· on the skin:

Irritant to skin and mucous membranes.

Causes skin irritation.

- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

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

Harmful Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
100-41-4 ethylbenzene	2B
· NTP (National Toxicology Program)	
None of the ingredients is listed.	
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	

US



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# 12 Ecological information

#### · Toxicity

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· Aquatic t	oxicity:					
100-41-4 et	hylbenzene					
EC50	75 mg/l (daphnia) (48 h)					
110-19-0 is	obutyl acetate					
EC50	370 mg/l (algae) (72 h)					
	25 mg/l (daphnia)					
LC50 (96h)	17 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	1001 mg/l (algae) (72 h)					
	501 mg/l (daphnia) (48 h)					
LC50 (96h)	134 mg/l (Fish)					
108-88-3 to	luene					
EC50	134 mg/l (algae) (3 h)					
	3.78 mg/l (daphnia) (48 h)					
	58 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: Not known to be hazardous to water.
- · 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

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· UN proper shipping name

Paint · IMDG, IATA PAINT

· Transport hazard class(es)

 $\cdot DOT$ 



· Class 3 Flammable liquids

· Label

· Class 3 Flammable liquids

· Label

· IMDG, IATA



3 Flammable liquids · Class 3

· Label

· Packing group

11 · DOT, IMDG, IATA

· Environmental hazards:

No · Marine pollutant:

· Special precautions for user Warning: Flammable liquids

· Danger code (Kemler): 33 F-E,S-E · EMS Number:

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

· IMDG

5L · Limited quantities (LQ)

Code: E2 · Excepted quantities (EQ)

Maximum net quantity per inner packaging: 30

Maximum net quantity per outer packaging:

· UN "Model Regulation": UN1263, 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

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	· Sectio	n 355	(extrem	ely	hazard	lous sui	bstances)	:
Mana	of the	inaro	dianta i	~ <i>Iii</i>	ato d			

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%		
108-88-3	toluene	0.5-<1%		

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

All ingredients are listed.

100-41-4 ethylbenzene

· Proposition 65

		· ·		
· Chemicals known to cause reproductive toxicity for females:				
108-88-3	toluene	0.5-<1%		
70657-70-4	2-methoxypropyl acetate	<0.01%		
1589-47-5	2-methoxypropanol	<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

0.5-<1%

Α4

\* 5-9.99%

## · Carcinogenic categories

		g				
	· EPA (Environmental Protection Agency)					
	1330-20-7	xylene	1	30-49.	9%	
	100-41-4	ethylbenzene	D	5-9,99	9%	
	108-88-3	toluene	11	0.5-<1	1%	
	· TLV (Threshold Limit Value established by ACGIH)					
	1330-20-7	xylene			A4	
ı	100-41-4 ethylbenzene					

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

None of the ingredients is listed.

### · National regulations:

108-88-3 toluene

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 09/18/2015 / 50
  - · Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

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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

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

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 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

IARC International agency for research on cancer

\* Data compared to the previous version altered.

- US