

Printing date 09/18/2015

Version number 87

Reviewed on 09/18/2015

1 Identification

· Product identifier

- · Product number LGA210
- · Trade name: Clear Matt PU Topcoat

• Relevant identified uses of the substance or 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. 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*



· Signal word Danger

• Hazard-determining components of labeling: xylene ethylbenzene ethyl acetate

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	Hazard statements	
	H225 Highly flamm	nable liquid and vapor.
	H315 Causes skin	irritation.
	H319 Causes seri	ous eye irritation.
	H351 Suspected of	of causing cancer.
	H335 May cause I	respiratory irritation.
	H373 May cause of	damage to the hearing organs through prolonged or repeated exposure.
	Precautionary state	
	P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
	P241	Use explosion-proof electrical/ventilating/lighting/equipment.
	P303+P361+P353	BIF ON SKIN (or hair): Remove/Take off immediately all contaminated
		clothing. Rinse skin with water/shower.
	P305+P351+P338	B 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.
. Classi	ification system:	international regulations.
	PA ratings (scale 0	
• 111	I A Tuings (scule 0	- 4)
	Health =	= 1
	Fire = 3	
	0 Reactivi	
		, ,
$\cdot HM$	IIS-ratings (scale 0	- 4)
HE	ALTH 1 Health	= *1
FIR	E 3 Fire = 3	3
RE	ACTIVITY O Reactiv	vity = 0

3 Com	position/infor	mation on in	aredients

· Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

1330-20-7	xylene	30-49.9%
	 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 	
100-41-4	ethylbenzene	5-9.99%
	 Flam. Liq. 2, H225 Carc. 2, H351; STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H332 	
110-19-0	isobutyl acetate	5-9.99%
	🚸 Flam. Liq. 2, H225	
108-65-6	2-methoxy-1-methylethyl acetate	1-2.49%
	🚸 Flam. Liq. 3, H226	



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141-78-6	ethyl acetate Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	Contd. of page 2) 1-2.49%
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	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.

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Ensure adequate ventilation	1.0
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	
Hendling	
· 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.	, nom
In cases where there is no reported expiration date , it means that the product must be	e 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 requ	iired.
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/m ³ , 100 ppm	
FEL Long-term value. 455 mg/m², 100 pp/m (Contd.on	D200 5)

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REL	Short-term value: 655 mg/m³, 150 ppm	
	Long-term value: 435 mg/m ³ , 100 ppm	
TLV	Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm	
	BEI	
100-4	41-4 ethylbenzene	
PEL	Long-term value: 435 mg/m ³ , 100 ppm	
REL	Short-term value: 545 mg/m³, 125 ppm	
	Long-term value: 435 mg/m ³ , 100 ppm	
TLV	Long-term value: 87 mg/m³, 20 ppm BEI	
110-1	19-0 isobutyl acetate	
PEL	Long-term value: 700 mg/m³, 150 ppm	
REL	Long-term value: 700 mg/m³, 150 ppm	
TLV	Short-term value: NIC-712 mg/m³, NIC-150 ppm Long-term value: (713) NIC-238 mg/m³, (150) NIC-50 ppm	
108-6	65-6 2-methoxy-1-methylethyl acetate	
WEEL	L Long-term value: 50 ppm	
141-7	78-6 ethyl acetate	
PEL	Long-term value: 1400 mg/m³, 400 ppm	
REL	Long-term value: 1400 mg/m³, 400 ppm	
TLV	Long-term value: 1440 mg/m³, 400 ppm	
	· Ingredients with biological limit values:	
	-20-7 xylene	
	1.5 g/g creatinine Medium: urine	
	Time: end of shift	
	Parameter: Methylhippuric acids	
100-4	41-4 ethylbenzene	
	0.7 g/g creatinine	
	Medium: urine Time: and of abift at and of workwook	
	Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantita	ative)
-	- Nord' and so the leader's	
	Medium: end-exhaled air Time: not critical	
	Parameter: Ethyl benzene (semi-quantitative)	
	· Additional information: The lists that were valid during the creation were used as bas	sis.
· Expos	osure controls	
	ersonal 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. (Contd.	. on page 6)
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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:



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	
• 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:	315 °C (599 °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:	1.0 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):	0.986 g/cm³ (8.228 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/w	ater): Not determined.	
· Viscosity:		
· Dynamic:	Not determined.	
• <i>Kinematic at 20</i> • <i>C</i> (68 • <i>F</i>):	38 s (ISO 6 mm)	
• Oxidising properties:	N.A.	
· Solvent content:		
· VOC content:	54.7 %	
	539.8 g/l / 4.50 lb/gl	
· Solids content:	45.3 %	
· Other information (HAPS)		
1330-20-7 xylene		30-49.9%
100-41-4 ethylbenzene		5-9,99%
108-88-3 toluene		0.5-<1%
· Other information	No further relevant information availab	le.

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

11 Toxicological information Information on toxicological effects

· Acute toxicity:

	-	
• LD/.	LC50 value	es that are relevant for classification:
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)
		(Contal on none Q)

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100-41-4	ethylbenz		d. of page
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)	
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)	
141-78-6	ethyl acet	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)	
108-88-3	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)	
• c • c • Sen: • Additio Cause: Cause: May ca	on the eye: sitization: 1 nal toxicolo s skin irrita s serious e ause respir ause dama	Irritant to skin and mucous membranes. Irritating effect. No sensitizing effects known. ogical information:	
	cinogenic c	•	
	•	national Agency for Research on Cancer)	
	ethylbenze		2
	•	nal Toxicology Program)	
NI	ne ingredie	nts is listed.	
None of th			
	OSHA-Ca (Occupational Safety & Health Administration)	

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12 Ecological information · Toxicity · Aquatic toxicity: 100-41-4 ethylbenzene EC50 75 mg/l (daphnia) (48 h) 110-19-0 isobutyl acetate EC50 370 mg/l (algae) (72 h) 25 mg/l (daphnia) LC50 (96h) 17 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) 141-78-6 ethyl acetate EC50 165 mg/l (daphnia) (48 h) LC50 (96h) 230 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) · 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.

UN-Number		
·DOT	NA 1263	
· IMDG, IATA	UN1263	



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· UN proper shipping name · DOT	Paint
· IMDG, IATA	PAINT
Transport hazard class(es)	
·DOT	
PLANMARE LOUD	
· Class	3 Flammable liquids
· Label	3 3 Elemente linuide
· Class · Label	3 Flammable liquids 3
· IMDG, IATA	
· Class	3 Flammable liquids
· Label	3
· Packing group · DOT, IMDG, IATA	11
• Environmental hazards: • Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
· Danger code (Kemler): · EMS Number:	33 E E S E
	F-E, <u>S-E</u>
 Transport in bulk according to Annex MARPOL73/78 and the IBC Code 	Not applicable.
Transport/Additional information:	
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E2 Maximum net quantity per inner packaging: . ml
	Maximum net quantity per outer packagin 500 ml
· 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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· SARA	(Cc	ntd. o	f page 10)	
· Secti	on 355 (extremely hazardous substances):			
None of the	e ingredients is listed.			
· Secti	on 313 (Specific toxic chemical listings) :			
1330-20-7			49.9%	
100-41-4	ethylbenzene	5-9	,99%	
108-88-3	toluene	0.5	i-<1%	
· TSCA (T	Foxic Substances Control Act):			
All ingredie	nts are listed.			
· Proposit	ion 65			
· Chen	nicals known to cause cancer:			
100-41-4 e	ethylbenzene	* 5	-9,99%	
· Chen	nicals 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%	
· Chen	nicals known to cause reproductive toxicity for males:			
None of the	e ingredients is listed.			
· Chen	nicals known to cause developmental toxicity:			
108-88-3 t			5-<1%	
· Carcino	genic categories			
· EPA	(Environmental Protection Agency)			
1330-20-7	-		30-49.9%	
	ethylbenzene D		5-9,99%	
108-88-3	toluene II	0.	0.5-<1%	
$\cdot TLV$	(Threshold Limit Value established by ACGIH)			
1330-20-7	-		A4	
	100-41-4 ethylbenzene		A3	
108-88-3	toluene		A4	
· NIOS	5H-Ca (National Institute for Occupational Safety and Health)			
None of the	e ingredients is listed.			

· National regulations:

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

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

16 Other information

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

- · Department issuing SDS: IVM Chemicals Srl
- · Contact: See emergency phone
 - · Date of preparation / last revision 09/18/2015 / 86
 - · 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	(Contd. of page
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)	
VFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
/OC: Volatile Organic Compounds (USA, ÉU)	
C50: Lethal concentration, 50 percent	
.D50: 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	
NRS Fiche Toxicologique	
ARC International agency for research on cancer	
⁵ Data compared to the previous version altered.	