

Safety Data Sheet acc. to OSHA HCS

Printing date 11/30/2022

Version number 2742

Reviewed on 11/23/2022

1 Identification

- · Product identifier
 - · Product number LNB77
 - Trade name: **POLYURETHANE HARDENER** • 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 Flammable Liquids 2 H225 Highly flammable liquid and vapor. Skin Irritation 2 H315 Causes skin irritation. Eve Irritation 2A H319 Causes serious eye irritation. Sensitization - Respiratory 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. Sensitization - Skin 1 H317 May cause an allergic skin reaction. Carcinogenicity 2 H351 Suspected of causing cancer. H361 Suspected of damaging fertility or the Toxic to Reproduction 2 unborn child. Specific Target Organ Toxicity - Single Exposure 3H336 May cause drowsiness or dizziness. Specific Target Organ Toxicity - Repeated H373 May cause damage to the central nervous system and the hearing organs Exposure 2 through prolonged or repeated exposure. Route of exposure: Oral and Inhalation. H304 May be fatal if swallowed and enters Aspiration Hazard 1

· Label elements

- · GHS label elements
- The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms

airways.



· Signal word Danger

• Hazard-determining components of labeling: toluene Aromatic polyisocyanate n-butyl acetate m-tolylidene diisocyanate

(Contd. on page 2)

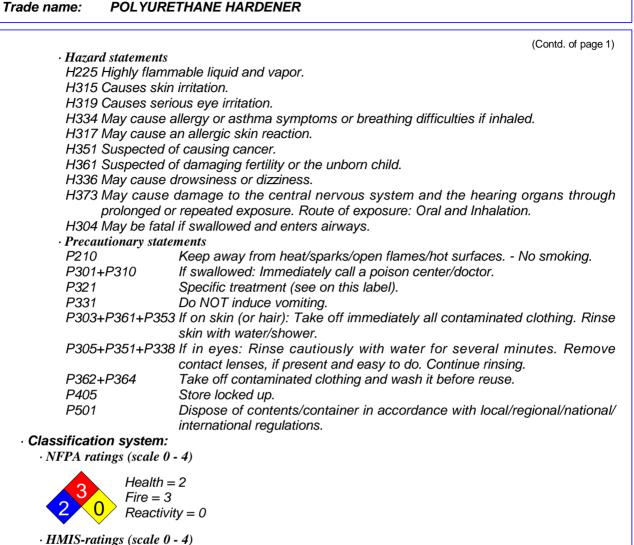


Safety Data Sheet acc. to OSHA HCS

Version number 2742

Reviewed on 11/23/2022

Product number LNB77

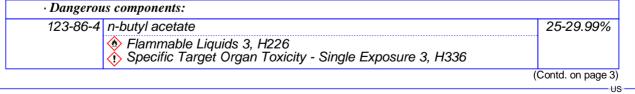


HEALTH2Health = 2FIRE3Fire = 3REACTIVITY0Reactivity = 0

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.





Safety Data Sheet acc. to OSHA HCS

Version number 2742

Reviewed on 11/23/2022

Product number LNB77 Trade name: POLYURETHANE HARDENER

78-93-3	butanone	(Contd. of page 2 20-24.99%
10000	 Flammable Liquids 2, H225 Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336 	20210070
108-88-3	toluene	20-24.99%
	 Flammable Liquids 2, H225 Toxic to Reproduction 2, H361; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304 Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H336 Aquatic Chronic 3, H412 	
9017-01-0	Aromatic polyisocyanate	12.5-15%
	🚸 Eye Irritation 2A, H319; Sensitization - Skin 1, H317	
53317-61-6	Aromatic polyisocyanate	5-9.99%
	🚸 Eye Irritation 2A, H319; Sensitization - Skin 1, H317	
141-78-6	ethyl acetate	2.5-4.99%
	 Flammable Liquids 2, H225 Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336 	
26471-62-5	m-tolylidene diisocyanate	≥0.1-<0.5%
	 Acute Toxicity - Inhalation 1, H330 Sensitization - Respiratory 1, H334; Carcinogenicity 2, H351 Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335 Aquatic Chronic 3, H412 	

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.
- personal protective equipment for first aid responders is recommended. (please see section 8) · *After inhalation:*
- Supply fresh air and to be sure call for a 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 Allergic reactions

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

(Contd. on page 4)



Safety Data Sheet acc. to OSHA HCS

Version number 2742

Reviewed on 11/23/2022

Product number LNB77

Trade name: POLYURETHANE HARDENER

• Indication of any immediate medical attention and special treatment needed No further relevant information available.

(Contd. of page 3)

5 Fire-fighting measures

· Extinguishing media

- Suitable extinguishing agents:
- Alcohol resistant foam
- 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. In case of fire, the following can be released: Nitrogen oxides (NOx) Carbon monoxide (CO)

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
 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).
 Dispose contaminated material as waste according to Section 13

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

DAC 1.

· PAC-1:		
123-86-4	n-butyl acetate	5 ppm
78-93-3	butanone	200 ppm
108-88-3	toluene	67 ppm
141-78-6	ethyl acetate	1,200 ppm
26471-62-5	m-tolylidene diisocyanate	0.02 ppm
· PAC-2:		
123-86-4	n-butyl acetate	200 ppm
78-93-3	butanone	2700* ppm
108-88-3	toluene	560 ppm
		(Contd. on page 5)



Safety Data Sheet acc. to OSHA HCS

Version number 2742

Reviewed on 11/23/2022

Printing date 11/30/2022

Product number LNB77 Trade name: POLYURETHANE HARDENER

	ethyl acetate m-tolylidene diisocyanate	(Contd. of page 4) 1,700 ppm 0.083 ppm
· PAC-3:		
123-86-4	n-butyl acetate	3000* ppm
78-93-3	butanone	4000* ppm
108-88-3	toluene	3700* ppm
141-78-6	ethyl acetate	10000** ppm
26471-62-5	m-tolylidene diisocyanate	0.51 ppm

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. 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.

123-86-4 n-butyl acetate

PEL Long-term value: 710 mg/m³, 150 ppm

(Contd. on page 6)

US



Safety Data Sheet acc. to OSHA HCS

Reviewed on 11/23/2022

Printing date 11/30/2022

Version number 2742

Product number LNB77		
Trade name:	POLYURETHANE HARDENER	

		(Contd. of page 5)
REL	Short-term value: 950 mg/m ³ , 200 ppm	
	Long-term value: 710 mg/m ³ , 150 ppm	
TLV	Short-term value: 150 ppm	
79.0	Long-term value: 50 ppm 3-3 butanone	
	Long-term value: 590 mg/m ³ , 200 ppm	
	Short-term value: 885 mg/m ³ , 300 ppm	
	Long-term value: 590 mg/m³, 200 ppm	
TLV	Short-term value: 300 ppm Long-term value: 200 ppm BEI	
108-	88-3 toluene	
PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift	
REL	Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm	
TLV	Long-term value: 20 ppm BEI, OTO, A4	
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: 400 ppm	
2647	71-62-5 m-tolylidene diisocyanate	
PEL	Ceiling limit value: 0.14 mg/m³, 0.02 ppm	
REL	LFC	
TLV	Short-term value: (0.14) NIC-0.021* mg/m³, (0.02) NIC-0.003* ppm Long-term value: (0.036) NIC-0.007* mg/m³, (0.005) NIC-0.001* ppm *(IFV) SEN; NIC-Skin; A3	
	· Ingredients with biological limit values:	
78-9	3-3 butanone	
BEI	2 mg/L Medium: urine Time: end of shift Parameter: Methyl ethyl ketone (nonspecific)	
108-	88-3 toluene	
	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)	
		(Contd. on page 7)



Safety Data Sheet acc. to OSHA HCS

Version number 2742

Reviewed on 11/23/2022

Product number LNB77 Trade name: POLYURETHANE HARDENER

(Contd. of page 6) • Additional information: The lists that were valid during the creation were used as basis. · Exposure controls · Personal protective equipment: · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin. Pregnant women should strictly avoid inhalation or skin contact. · Breathing equipment: Short term filter device: Suitable respiratory protective device recommended. Filter A · 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

pH-value:	Mixture is non-polar/aprotic.	
· Odor threshold:	Not determined.	
· Odor:	Characteristic	
· Color:	According to product specification	
· Form:	Fluid	
· Appearance:		

(Contd. on page 8)

US



Safety Data Sheet acc. to OSHA HCS

Version number 2742

Reviewed on 11/23/2022

Product number LNB77

FIGUUCLIIUIIIDEI	LIND//
Trade name:	POLYURETHANE HARDENER

• Change in condition • Melting point/Melting range: • Boiling point/Boiling range:	Undetermined. 77 °C (170.6 °F)	(Contd. of page
· Bouing point/Bouing range:	-4 °C (24.8 °F)	
· Flammability (solid, gaseous):	Highly flammable.	
· Ignition temperature:	370 °C (698 °F)	
· ·	. ,	
• Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
• Danger of explosion:	Product is not explosive. However, form air/vapor mixtures are possible.	ation of explosiv
· Explosion limits:		
· Lower:	1.2 Vol %	
· Upper:	11.5 Vol %	
· Vapor pressure at 20 °C (68 °F):	105 hPa (78.8 mm Hg)	
• Density (+/- 0,03) at 20 °C (68 °F):	0.965 g/cm³ (8.053 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 $^{\circ}C$ (68 $^{\circ}F$):	29 s (ISO 3 mm)	
· Oxidising properties:	N.A.	
• Solvent content: • VOC content:	76.47 % 737.9 g/l / 6.16 lb/gal	
· Solids content:	23.4 %	
	25.7 /0	
Other information (HAPS) 108-88-3 toluene		20-24.99%
26471-62-5 m-tolylidene diisocyanate		≥0.1-<0.5%
• Other information	No further relevant information available.	

10 Stability and reactivity

 \cdot **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 Vapours may form explosive mixtures with air

· Conditions to avoid No further relevant information available.

 \cdot Incompatible materials: Acids, alkalis and oxidizing agents

(Contd. on page 9)

US

Safety Data Sheet acc. to OSHA HCS

Version number 2742

Reviewed on 11/23/2022

pgs & polymers technologies Printing date 11/30/2022

Chemicals

Product number LNB77

Trade name: POLYURETHANE HARDENER

· Hazardous decomposition products:

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

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· Acute to	oxicity:		
· LD/	LC50 value	s that are relevant for classification:	
•	•	y Estimate)	
Inhalative	LC50/4 h	67.2 mg/l (mouse)	
123-86-4 r	n-butyl ac	etate	
Oral	LD50	10,760 mg/kg (mouse)	
Dermal	LD50	14,000 mg/kg (rabbit)	
Inhalative	LC50/4 h	21.1 mg/l (mouse)	
78-93-3 bi	utanone		
Oral	LD50	2,001 mg/kg (mouse)	
Dermal	LD50	5,001 mg/kg (rabbit)	
Inhalative	LC50/4 h	21 mg/l (mouse)	
108-88-3 t	toluene		
Oral	LD50	5,000 mg/kg (mouse)	
Dermal	LD50	12,124 mg/kg (rabbit)	
Inhalative	LC50/4 h	25.7 mg/l (mouse)	
9017-01-0	Aromatic	polyisocyanate	
Oral	LD50	2,001 mg/kg (mouse) (OECD TG 423) Esami tossicologici su un prodotto compatibile	
53317-61-	6 Aromati	c polyisocyanate	
Oral	LD50	5,001 mg/kg (mouse)	
141-78-6 e	ethyl aceta	ate	
Oral	LD50	4,934 mg/kg (rabbit)	
Dermal	LD50	20,001 mg/kg (rabbit)	
Inhalative	LC50/4 h	1,600 mg/l (mouse)	
	LC0	22.6 ppm (mouse)	
26471-62-	5 m-tolyli	dene diisocyanate	
Oral	LD50	5,110 mg/kg (mouse)	
Dermal	LD50	9,401 mg/kg (rabbit)	
		0.107 mg/l (mouse)	
	ary irritan		
		Irritant to skin and mucous membranes. Irritating effect.	
	sitization:	initiating onool.	
Sen	sitization p	oossible through inhalation.	
		ossible through skin contact.	
		ogical information:	
Harmfu			(Contd. on page 10)

(Contd. of page 8)

US

US



Printing date 11/30/2022

Safety Data Sheet acc. to OSHA HCS

Version number 2742

Reviewed on 11/23/2022

Product number LNB77

Trade name: POLYURETHANE HARDENER

	(Contd. of page 9)
Irritant	
Causes skin irritation.	
Causes serious eye irritation.	
May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
May cause an allergic skin reaction.	
Suspected of causing cancer.	
Suspected of damaging fertility or the unborn child.	
May cause drowsiness or dizziness.	
May cause damage to the central nervous system and the hearing organs through repeated exposure. Route of exposure: Oral and Inhalation.	n proiongea or
May be fatal if swallowed and enters airways. Contains isocyanates. See information supplied by the manufacturer.	
As from 24 August 2023 adequate training is required before industrial or profession	onalusa
• Carcinogenic categories	Jiai use.
· IARC (International Agency for Research on Cancer - Cl. 1 and 2)	
26471-62-5 <i>m</i> -tolylidene diisocyanate	2B
• NTP (National Toxicology Program)	
26471-62-5 m-tolylidene diisocyanate	≥0.1-<0.5%
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	
· Sensitisation	
Toluene-diisocyanate (mixture of isomers)	
Skin sensitization (LLNA - Local Lymph Node Assay): mouse	
positive Result	
Method OECD TG 429	
Respiratory sensitization	
May cause sensitization by inhalation	
Monomers / polymers isocyanate	
Particular characteristics / effects; prolonged exposure may irritate the eyes and respiratory tract.	s, nose, throat
Isocyanate exposure may result in the delayed appearance of respiratory disor asthma. Sensitive individuals may show exposure symptoms to isocya	
workplace TLV values. Prolonged skin contact may result cause irritation and c	

12 Ecological information

· Toxicity

· Aquatic t	oxicity:
123-86-4 n-	butyl acetate
EC50	397 mg/l (algae) (72 h)
	44 mg/l (daphnia) (48 h)
LC50 (96h)	18 mg/l (Fish)
78-93-3 but	anone
EC50	2,029 mg/l (algae) (96 h)
	308 mg/l (daphnia) (48 h)
LC50 (96h)	2,993 mg/l (Fish)
108-88-3 to	luene
EC50	134 mg/l (algae) (96 h)
	(Contd. on page 11)



Safety Data Sheet acc. to OSHA HCS

Version number 2742

Reviewed on 11/23/2022

Product number LNB77

Printing date 11/30/2022

Trade name: POLYURETHANE HARDENER

			(Contd. of page 1
	3.78 mg/l (dap	ohnia) (48 h)	
LC50 (96h)	5.5 mg/l (Fish)	
141-78-6 et	hyl acetate		
EC50	165 mg/l (dap	hnia) (48 h)	
LC50 (96h)	230 mg/l (Fisł	n)	
26471-62-5	m-tolylidene	diisocyanate	
EC50	12.5 mg/l (daµ	ohnia) (48h)	
LC50 (96h)	133 mg/l (Leu	ciscus idus melanotus)	
· Persistence	e and degrada	bility No further relevant information available.	
 Substanc 	es Easily biodeg	radable	
123-86-4 n	-butyl acetate		
78-93-3 b	utanone		
108-88-3 ta	oluene		
141-78-6 e	thyl acetate		
· Bioaccum · Mobility		al No further relevant information available. er relevant information available.	

· 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.

· 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, IMDG, IATA	UN1263		
· Note	Check viscosity and flash point at section 9		
UN proper shipping name			
·DOT	Paint		
· IMDG, IATA	PAINT		



Safety Data Sheet acc. to OSHA HCS

Version number 2742

Reviewed on 11/23/2022

Product number LNB77 Trade name: POLYURETHANE HARDENER

	(Contd. of page 11
· Transport hazard class(es)		
·DOT		
FLAMMARIE EDOD		
· Class	3 Flammable liquids	
· Label	3 2 Flammakla linuida	
· 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	
• Hazard identification number (Kemler		
· EMS Number: · Stowage Category	F-E, <u>S-E</u> B	
Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	of Not applicable.	
· Transport/Additional information:		
· IMDG · Limited quantities (LQ)	5L	
• Excepted quantities (EQ)	Code: E2	
-	Maximum net quantity per inner _i ml	backaging: 30
	Maximum net quantity per oute 500 ml	er packaging.
· UN "Model Regulation":	UN 1263 PAINT, 3, II	

15 Regulatory information

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

Requirements of Federal Register

· Various regulations

· SARA

• Section 355 (extremely hazardous substances):

None of the ingredients is listed.

(Contd. on page 13)

US



Safety Data Sheet acc. to OSHA HCS

Version number 2742

Reviewed on 11/23/2022

Product number LNB77

FIOUUCLIIUIIIDEI	LND//
Trade name:	POLYURETHANE HARDENER

		(Co	ntd. of p	age 1	
	tion 313 (Specific toxic chemical listings) :				
108-88-3	toluene	2	20-24.9	99%	
26471-62-5	m-tolylidene diisocyanate	≥	:0.1-<	0.5%	
· TSCA	(Toxic Substances Control Act):				
All compone	nts have the value ACTIVE.				
· Ha	zardous Air Pollutants				
108-88-3 to					
-	ition 65				
· Ch	emicals known to cause cancer:				
26471-62-5	m-tolylidene diisocyanate	* 2	≥0.1 - <	0.5%	
· Ch	emicals known to cause reproductive toxicity for females:				
None of the	ingredients is listed.				
· Ch	emicals known to cause reproductive toxicity for males:				
None of the	ingredients is listed.				
· Ch	emicals known to cause developmental toxicity:				
108-88-3 to	luene		20-24.	99%	
· Carcin	ogenic categories				
	A (Environmental Protection Agency)				
78-93-3 bi	Itanone	Ι	20-24	.99%	
108-88-3 to	luene	11	20-24	24.99%	
· TL	V (Threshold Limit Value)				
108-88-3	toluene			A4	
26471-62-5	26471-62-5 m-tolylidene diisocyanate			(A4)	
· NI	OSH-Ca (National Institute for Occupational Safety and Health)				
	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 11/30/2022
Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial 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



Safety Data Sheet acc. to OSHA HCS

Version number 2742

Reviewed on 11/23/2022

Product number LNB77 Trade name: POLYURETHANE HARDENER

(Contd. of page 13) OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flammable Liquids 2: Flammable liquids - Category 2 Flammable Liquids 3: Flammable liquids – Category 3 Acute Toxicity - Inhalation 1: Acute toxicity – Category 1 Skin Irritation 2: Skin corrosion/irritation – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Sensitization - Respiratory 1: Respiratory sensitisation – Category 1 Sensitization - Skin 1: Skin sensitisation – Category 1 Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 2: Reproductive toxicity - Category 2 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2 Aspiration Hazard 1: Aspiration hazard - Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 Sources REGULATION (EC) № 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 \cdot * Data compared to the previous version altered. us