

1 Identification

- **Product identifier**
 - *Product number* LNB110
 - *Trade name:* **Hardener**
 - *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

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

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



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **Label elements**

- *GHS label elements*

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

- *Hazard pictograms*



GHS02 GHS07 GHS08

- *Signal word* Danger

- *Hazard-determining components of labeling:*

Polyisocyanate HDI / TDI

n-butyl acetate

toluene

Homopolymers of HDI

Product number LNB110
Trade name: Hardener

(Contd. of page 1)

· **Hazard statements**

H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H361 Suspected of damaging fertility or the unborn child.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
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)**



· **HMIS-ratings (scale 0 - 4)**



3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

123-86-4	n-butyl acetate ⚠ Flam. Liq. 3, H226 ⚠ STOT SE 3, H336	15- <50%
26426-91-5	Polyisocyanate HDI / TDI ⚠ Eye Irrit. 2A, H319; Skin Sens. 1, H317	20-24.9%
141-78-6	ethyl acetate ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	10-12.49%
28182-81-2	Homopolymers of HDI ⚠ Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	10-12.49%
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	2.5-4.99%

(Contd. on page 3)

Safety Data Sheet

29 CFR Parts 1910 1915 1926

Printing date 09/18/2015

Version number 79

Reviewed on 09/18/2015

Product number LNB110
Trade name: Hardener

		(Contd. of page 2)
108-94-1	cyclohexanone Flam. Liq. 3, H226 Acute Tox. 4, H332	1-2.49%
822-06-0	hexamethylene diisocyanate Acute Tox. 3, H331 Resp. Sens. 1, H334 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	<0.1%
26471-62-5	m-tolylidene diisocyanate Acute Tox. 2, H330 Resp. Sens. 1, H334; Carc. 2, H351 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 Aquatic Chronic 3, H412	<0.1%

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 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.

· 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.

· 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.

US

(Contd. on page 4)

Product number LNB110
Trade name: Hardener

(Contd. of page 3)

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

(Contd. on page 5)

US

Safety Data Sheet

29 CFR Parts 1910 1915 1926

Printing date 09/18/2015

Version number 79

Reviewed on 09/18/2015

Product number LNB110
Trade name: Hardener

(Contd. of page 4)

· Control parameters

· Components with limit values that require monitoring at the workplace:

123-86-4 n-butyl acetate

PEL	Long-term value: 710 mg/m , 150 ppm
REL	Short-term value: 950 mg/m , 200 ppm Long-term value: 710 mg/m , 150 ppm
TLV	Short-term value: (950) NIC-712 mg/m , (200) NIC-150 ppm Long-term value: (713) NIC-238 mg/m , (150) NIC-50 ppm

141-78-6 ethyl acetate

PEL	Long-term value: 1400 mg/m , 400 ppm
REL	Long-term value: 1400 mg/m , 400 ppm
TLV	Long-term value: 1440 mg/m , 400 ppm

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/m , 150 ppm Long-term value: 375 mg/m , 100 ppm
TLV	Long-term value: 75 mg/m , 20 ppm BEI

108-94-1 cyclohexanone

PEL	Long-term value: 200 mg/m , 50 ppm
REL	Long-term value: 100 mg/m , 25 ppm Skin
TLV	Long-term value: 50 mg/m , 20 ppm Skin

· Ingredients with biological limit values:

108-88-3 toluene

BEI	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene
	0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene
	0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)

(Contd. on page 6)

Product number LNB110
Trade name: Hardener

(Contd. of page 5)

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.

· **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 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

(Contd. on page 7)

US

Safety Data Sheet

29 CFR Parts 1910 1915 1926

Printing date 09/18/2015

Version number 79

Reviewed on 09/18/2015

Product number LNB110
Trade name: Hardener

(Contd. of page 6)

· 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:	370 °C (698 °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:	1.2 Vol %	
· Upper:	11.5 Vol %	
· Vapor pressure at 20 °C (68 °F):	97 hPa (73 mm Hg)	
· Density at 20 °C (68 °F):	0.992 g/cm (8.278 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/water):	Not determined.	
· Viscosity:		
· Dynamic:	Not determined.	
· Kinematic at 20 °C (68 °F):	29 s (ISO 3 mm)	
· Oxidising properties:	N.A.	
· Solvent content:		
· VOC content:	65.4 % 648.8 g/l / 5.41 lb/gl	
· Solids content:	34.6 %	
· Other information (HAPS)		
108-88-3	toluene	2,5-4,99%
822-06-0	hexamethylene diisocyanate	<0.1%
26471-62-5	m-tolyldiene diisocyanate	<0.1%
· Other information		No further relevant information available.

10 Stability and reactivity

- **Reactivity** typical of the product as indicated in the data sheet
- **Chemical stability** The product is stable in normal conditions of storage and use recommended
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.

(Contd. on page 8)

Product number LNB110
Trade name: Hardener

(Contd. of page 7)

- **Possibility of hazardous reactions**
Reacts with strong acids and oxidizing agents.
Vapours may form explosive mixtures with air
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
in case of possible formation of combustion:
Carbon monoxide and carbon dioxide

11 Toxicological information

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

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

123-86-4 n-butyl acetate

Oral	LD50	10760 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	14000 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	21.1 mg/l (rat/szczur/mouse/souris/Maus/ratón)

141-78-6 ethyl acetate

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)

28182-81-2 Homopolymers of HDI

Oral	LD50	2501 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	2001 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)

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)

108-94-1 cyclohexanone

Oral	LD50	1535 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	1100 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	11 mg/l (rat/szczur/mouse/souris/Maus/ratón)

822-06-0 hexamethylene diisocyanate

Oral	LD50	738 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	593 mg/kg (rat/szczur/mouse/souris/Maus/ratón)

26471-62-5 m-tolylidene diisocyanate

Oral	LD50	5110 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	9401 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	0.107 mg/l (rat/szczur/mouse/souris/Maus/ratón)

- **Primary irritant effect:**
 - **on the skin:** May cause an allergic skin reaction.
 - **on the eye:**
Irritating effect.
Causes serious eye irritation.
- **Sensitization:** Sensitization possible through skin contact.

(Contd. on page 9)

Product number LNB110
Trade name: Hardener

(Contd. of page 8)

- **Additional toxicological information:**
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of damaging the unborn child.
May cause drowsiness or dizziness.
Contains isocyanates. May produce an allergic reaction.
Irritant
May cause drowsiness or dizziness.

· **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
108-94-1	cyclohexanone	3
26471-62-5	m-tolylidene diisocyanate	2B
· NTP (National Toxicology Program)		
26471-62-5	m-tolylidene diisocyanate	<0.1%
· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

· **More information**

Monomers / polymers isocyanate
Particular characteristics / effects; prolonged exposure may irritate the eyes, nose, throat and respiratory tract.
Isocyanate exposure may result in the delayed appearance of respiratory disorders, cough or asthma. Sensitive individuals may show exposure symptoms to isocyanates below workplace TLV values. Prolonged skin contact may result cause irritation and dehydration.

12 Ecological information

· **Toxicity**

· Aquatic toxicity:	
123-86-4 n-butyl acetate	
EC50	648 mg/l (algae) (72 h) 44 mg/l (daphnia) (48 h)
LC50 (96h)	18 mg/l (Fish)
141-78-6 ethyl acetate	
EC50	165 mg/l (daphnia) (48 h)
LC50 (96h)	230 mg/l (Fish)
28182-81-2 Homopolymers of HDI	
EC50	1001 mg/l (algae) (48 h) 127 mg/l (daphnia) (48 h)
108-88-3 toluene	
EC50	134 mg/l (algae) (3 h) 3.78 mg/l (daphnia) (48 h) 58 mg/l (Fish)
108-94-1 cyclohexanone	
EC50	101 mg/l (algae) (72 h)
LC50 (96h)	527 mg/l (Fish)

(Contd. on page 10)

Safety Data Sheet 29 CFR Parts 1910 1915 1926

Printing date 09/18/2015

Version number 79

Reviewed on 09/18/2015

Product number LNB110
Trade name: Hardener

(Contd. of page 9)

26471-62-5 m-tolylidene diisocyanate


EC50	12.5 mg/l (daphnia) (48h)
LC50 (96h)	133 mg/l (Leuciscus idus melanotus)

- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
 - *Bioaccumulative potential* No further relevant information available.
 - *Mobility in soil* No further relevant information available.
- **Additional ecological information:**
 - *General notes:*
 Water hazard class 1 (Self-assessment): slightly hazardous for water
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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
 - Label 3

(Contd. on page 11)

US

Safety Data Sheet

29 CFR Parts 1910 1915 1926

Printing date 09/18/2015

Version number 79

Reviewed on 09/18/2015

Product number LNB110
Trade name: Hardener

(Contd. of page 10)

· **IMDG, IATA**

· **Class** 3 Flammable liquids
 · **Label** 3

· **Packing group**· **DOT, IMDG, IATA** II· **Environmental hazards:**· **Marine pollutant:** No· **Special precautions for user**

Warning: Flammable liquids

· **Danger code (Kemler):** 33· **EMS Number:** F-E, S-E· **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**· **IMDG**

· **Limited quantities (LQ)** 5L
 · **Excepted quantities (EQ)** Code: E2
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 500 ml

· **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

· **SARA**· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

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

108-88-3	toluene	2,5-4,99%
822-06-0	hexamethylene diisocyanate	<0.1%
26471-62-5	m-tolyldiene diisocyanate	<0.1%

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

All ingredients are listed.

· **Proposition 65**· **Chemicals known to cause cancer:**

26471-62-5	m-tolyldiene diisocyanate	*	<0.1%
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· **Chemicals known to cause reproductive toxicity for females:**

108-88-3	toluene	2,5-4,99%
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(Contd. on page 12)

Safety Data Sheet

29 CFR Parts 1910 1915 1926

Printing date 09/18/2015

Version number 79

Reviewed on 09/18/2015

Product number LNB110
Trade name: Hardener

(Contd. of page 11)

· Chemicals known to cause reproductive toxicity for males:		
None of the ingredients is listed.		
· Chemicals known to cause developmental toxicity:		
108-88-3	toluene	2,5-4,99%
· Carcinogenic categories		
· EPA (Environmental Protection Agency)		
108-88-3	toluene	II 2,5-4,99%
· TLV (Threshold Limit Value established by ACGIH)		
108-88-3	toluene	A4
108-94-1	cyclohexanone	A3
26471-62-5	m-tolylidene diisocyanate	(A4)
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
26471-62-5	m-tolylidene diisocyanate	<0.1%

· **National regulations:**

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

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

16 Other information

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

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

· **Contact:** See emergency phone

· **Date of preparation / last revision** 09/18/2015 / 78

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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

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

Acute Tox. 2: Acute toxicity, Hazard Category 2

Acute Tox. 3: Acute toxicity, 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

Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

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

(Contd. on page 13)

Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 09/18/2015

Version number 79

Reviewed on 09/18/2015

Product number LNB110
Trade name: Hardener

(Contd. of page 12)

Agency ECHA web site
INRS Fiche Toxicologique
IARC International agency for research on cancer
· * Data compared to the previous version altered.

US