

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Product name : LECHSYS EPODUR HARDENER STANDARD

Product code : L0290376

Use of the
Substance/Preparation : Compound for pigmented epoxyCompany : Lechler SpA
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22100 Como

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In order to get more information and in case of emergencies please address to Lechler Group Security Office.

: Tel. +39-031-586301
Fax +39-031-586299**2. HAZARDS IDENTIFICATION**

Highly flammable



Corrosive

Dangerous for the
environment**Hazardous components which must be listed on the label:**

- Benzyl Alcohol
- 4,4'-Methylenebiscyclohexanamine
- Xylene

R-phrases) :

Highly flammable.

Harmful by inhalation and if swallowed.

Causes severe burns.

May cause sensitization by skin contact.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s) :

Keep container in a well-ventilated place.

Keep away from sources of ignition - No smoking.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Take precautionary measures against static discharges.

Wear suitable protective clothing, gloves and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Revision Date 18.09.2009
Version 3

Print Date 28/05/2010

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Compound for pigmented epoxy

Hazardous components :

Components	CAS-No.	EC-No.	Symbol(s)	R-phrases(s)	Concentration [%]
Xylene	1330-20-7	601-022-00-9	Xn	R20/21, R38, R10	>= 5 - < 7
Benzyl Alcohol	100-51-6	603-057-00-5	Xn	R20/22	>= 30 - < 50
Ethyl Methyl Ketone	78-93-3	606-002-00-3	Xi, F	R11, R66, R67, R36	>= 5 - < 7
4,4'-Methylenebiscyclohexanamine	1761-71-3		C, N	R35, R22, R51, R53	>= 30 - < 50

4. FIRST AID MEASURES

General advice : When symptoms persist or in all cases of doubt seek medical advice.
Never give anything by mouth to an unconscious person.

Inhalation : Remove to fresh air.
Keep patient warm and at rest.
If breathing is irregular or stopped, administer artificial respiration.
If unconscious place in recovery position and seek medical advice.

In case of skin contact : Take off all contaminated clothing immediately.
Wash skin thoroughly with soap and water or use recognized skin cleanser.
Do NOT use solvents or thinners.
Put shower on working place

In case of eye contact : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
Seek medical advice.
Put eye-washer on working place
Remove contact lenses.

If swallowed : If accidentally swallowed obtain immediate medical attention.
Do NOT induce vomiting.
Keep at rest.

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5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Keep containers and surroundings cool with water spray.
- Extinguishing media which shall not be used for safety reasons : Do NOT use water jet.
- Specific hazards during fire fighting : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).
Exposure to decomposition products may be a hazard to health.
Cool closed containers exposed to fire with water spray.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for fire-fighters : Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Solvent vapours are heavier than air and may spread along floors.
Ensure adequate ventilation.
Use personal protective equipment.
Evacuate personnel to safe areas.
Keep people away from and upwind of spill/leak.
Ventilate the area.
- Environmental precautions : Try to prevent the material from entering drains or water courses.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods for cleaning up : Clean with detergents. Avoid solvents.
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises water (45 parts by volume)/ethanol or isopropanol (50 parts)/ concentrated (d:0,880) ammonia solution (5 parts). A non flammable alternative is sodium carbonate (5 parts)/ water (95 parts).
Pick up and transfer to properly labelled containers.
Clean contaminated surface thoroughly.
Dam up.
Soak up with inert absorbent material and dispose of as hazardous waste.
- Additional advice : Refer to section 15 for specific national regulation.

7. HANDLING AND STORAGE**Handling**

- Safe handling advice : Avoid exceeding of the given occupational exposure limits (see section 8).
Use only in area provided with appropriate exhaust ventilation.
Avoid contact with skin, eyes and clothing.
Smoking, eating and drinking should be prohibited in the application area.
Avoid inhalation of vapour or mist.
For personal protection see section 8.
Thoroughly mix before using
After using, store in a well-sealed container
- Advice on protection against fire and explosion : Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.
When transferring from one container to another apply earthing measures and use conductive hose material.
No sparking tools should be used.
The product should only be used in areas from which all naked lights and other sources of ignition have been excluded.
No smoking.

Storage

- Requirements for storage areas and containers : Observe label precautions.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Solvent vapours are heavier than air and may spread along floors.
Vapours may form explosive mixtures with air.
Electrical installations / working materials must comply with the technological safety standards.
Keep away from sources of ignition - No smoking.
Store between 5° and 35°C in a dry, well ventilated place away from source of heat, ignition and direct sunlight.
Store in accordance with the particular national regulations.
- Advice on common storage : Keep away from oxidising agents and strongly acid or alkaline materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value [mg/m ³]	Value [ppm]	Basis
Xylene	1330-20-7	221,00	50,00	
Ethyl Methyl Ketone	78-93-3	600,00	200,00	

Personal protective equipment

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- Respiratory protection : Apply technical measures to comply with the occupational exposure limits.
This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation.
If the occupational exposure limits cannot be met, in exceptional cases suitable respiratory equipment should be worn only for a short period of time.
- Hand protection : For prolonged or repeated contact use protective gloves.
Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred.
Skin should be washed after contact.
Wash your hands and put on barrier creams
- Eye protection : Chemical resistant goggles must be worn.
- Skin and body protection : Skin should be washed after contact.
Working clothes must not consist of textiles, which show a dangerous melting behaviour in case of fire.
Personnel should wear protective clothing
Workers should wear antistatic footwear.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : liquid
- Flash point : 0 - < 21 °C
- Density : 1 g/cm³
- Viscosity : ≤ 60 s
Transversale section: 6 mm
Method: 2431 '84 (ISO 6)
- Solids by weight : 54 %
- Volatile organic compounds (VOC) content : 46 %

10. STABILITY AND REACTIVITY

- Conditions to avoid : Our products were manufactured in compliance with safety standards to avoid decomposition and degrading under the defined conditions.
Taking the product type into account, it is advisable to leave the product in its original packaging thus avoiding transferring it.
- Hazardous reactions : Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

11. TOXICOLOGICAL INFORMATION

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- Acute inhalation toxicity : Exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects.
Such as: mucous membrane irritation, respiratory system irritation, adverse effects on kidney, liver and central nervous system.
Symptoms and signs: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness.
Inhalation of airborne droplets may cause irritation of the respiratory tract.
- Skin irritation : Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in desiccation of the skin.
The product may be absorbed through the skin.
- Note : The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.
- Benzyl Alcohol OBSERVATIONS ON HUMAN SUBJECTS: Metabolism-excretion: human organism rapidly oxidises benzyl alcohol to benzoic acid. This acid, after combination with glycine, is promptly eliminated by urine disguised as hippuric acid. After 1,5 g oral administration 75-85% is eliminated by urine as hippuric acid. Vapours can pierce untouched skin. Probable oral lethal dose for man from 0,5 to 5 g/kg.

12. ECOLOGICAL INFORMATION

- Further information on ecology : The product contains dangerous substances for the environment (see chapter n° 2), The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

13. DISPOSAL CONSIDERATIONS

- Product : The product should not be allowed to enter drains, water courses or the soil.
Disposal together with normal waste is not allowed. Special disposal required according to local regulations.

14. TRANSPORT INFORMATION

- | | | | |
|------------|---|--------------------------|--|
| ADR | : | UN-Number | 3469 |
| | | Class | 3 |
| | | Packing instruction (LQ) | FC |
| | | Packaging group | II |
| | | Description of the goods | PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE |

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IMDG	: UN-Number	3469		
	Class	3		
	EmS	F-E, S-C		
	Packaging group	II		
	Description of the goods	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE		
IATA	: UN-Number	3469		
	Class	3		
	Packaging group	II		
	Description of the goods	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE		

15. REGULATORY INFORMATION

Hazardous components which must be listed on the label:

- Benzyl Alcohol
- 4,4'-Methylenebiscyclohexanamine
- Xylene

Symbol(s)	:	F	Highly flammable
		C	Corrosive
		N	Dangerous for the environment
R-phrases(s)	:	R11	Highly flammable.
		R20/22	Harmful by inhalation and if swallowed.
		R35	Causes severe burns.
		R43	May cause sensitization by skin contact.
		R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases(s)	:	S 9	Keep container in a well-ventilated place.
		S16	Keep away from sources of ignition - No smoking.
		S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
		S33	Take precautionary measures against static discharges.
		S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
		S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

National legislation

Germany

Risk classification according to BetrSichV (Germany)	:	AI
Water contaminating class (Germany)	:	highly water endangering

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16. OTHER INFORMATION**Further information**

Xylene	R20/21	Harmful by inhalation and in contact with skin.
	R38	Irritating to skin.
	R10	Flammable.
Benzyl Alcohol	R20/22	Harmful by inhalation and if swallowed.
Ethyl Methyl Ketone	R11	Highly flammable.
	R66	Repeated exposure may cause skin dryness or cracking.
	R67	Vapours may cause drowsiness and dizziness.
	R36	Irritating to eyes.
4,4'-Methylenebiscyclohexanamine	R35	Causes severe burns.
	R22	Harmful if swallowed.
	R51	Toxic to aquatic organisms.
	R53	May cause long-term adverse effects in the aquatic environment.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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This safety datasheet has been prepared according to European Union legislation.