

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name: EPOXYHARDER EP-LIJM 2000 B-comp.**
- **Application of the substance / the preparation -**
- **Manufacturer/Supplier:**
ROMAR-VOSS
Grote Laak 17
NL 6088 NJ Roggel
Tel. 0031-(0)475-491019
Fax. 0031-(0)475-491033
E-mail. info@romar-voss.nl
- **Further information obtainable from:** Product safety department.
- **Information in case of emergency:**
E-mail. geggels@romar-voss.nl
Tel. 0031-(0)475-491019

2 Hazards identification

- **Hazard description:**



C Corrosive
N Dangerous for the environment

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 22 Harmful if swallowed.

R 34 Causes burns.

R 43 May cause sensitisation by skin contact.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **GHS label elements**



Danger

3.2/1B - Causes severe skin burns and eye damage.



Warning

3.1/4 - Harmful if swallowed.

3.4/1 - May cause an allergic skin reaction.



4.1/2 - Toxic to aquatic life with long lasting effects.

- **Prevention:**

Do not breathe dust/fume/gas/mist/vapours/spray.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

Trade name: EPOXYHARDER EP-LIJM 2000 B-comp.

(Contd. of page 1)

· **Response:**

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN: Wash with plenty of soap and water.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

Specific treatment (see label).

Rinse mouth.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Collect spillage.

· **Storage:**

Store locked up.

· **Disposal:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

· **Chemical characterization**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 25154-52-3 EINECS: 246-672-0	nonylphenol C, Xn, N; R 22-34-62-50/53-63 Danger: 3.1.O/3; 3.2/1B Warning: 3.7/2; 4.1.C/1	10-25%
CAS: 98-54-4 EINECS: 202-679-0	4-tert-butylphenol Xi; R 36/37/38 Danger: 3.2/1C Warning: 3.8/3	2.5-10%
CAS: 25620-58-0 EINECS: 247-134-8	trimethylhexane-1,6-diamine C, Xn; R 22-34-43 Danger: 3.1.O/3, 3.4.S/1; 3.2/1B	2.5-10%
CAS: 1477-55-0 EINECS: 216-032-5	m-phenylenebis(methylamine) C, Xn; R 22-34 Danger: 3.1.O/3; 3.2/1B	2.5-10%
CAS: 61788-46-3	Tetradecylamine C; R 35 Danger: 3.2/1A	2.5-10%
CAS: 90-72-2 EINECS: 202-013-9	2,4,6-tris(dimethylaminomethyl)phenol Xn, Xi; R 22-36/38 Danger: 3.1.O/3, 3.2/2, 3.3/2A	2.5-10%
CAS: 108-10-1 EINECS: 203-550-1	4-methylpentan-2-one Xn, Xi, F; R 11-20-36/37-66 Danger: 2.6/2 Warning: 3.1.I/4, 3.3/2A, 3.8/3	2.5-10%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

GB

(Contd. on page 3)

Printing date 24.01.2008

Revision: 24.01.2008

Trade name: EPOXYHARDER EP-LIJM 2000 B-comp.

(Contd. of page 2)

4 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.
- **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.
Immediately rinse with water.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
Call for a doctor immediately.
Drink plenty of water and provide fresh air. Call for a doctor immediately.

5 Fire-fighting measures

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
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.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** -
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

(Contd. on page 4)

GB

Trade name: EPOXYHARDER EP-LIJM 2000 B-comp.

(Contd. of page 3)

· **Ingredients with limit values that require monitoring at the workplace:**

108-10-1 4-methylpentan-2-one

WEL	Short-term value: 416 mg/m ³ , 100 ppm
	Long-term value: 208 mg/m ³ , 50 ppm
Sk	

· **Additional information:** The lists valid during the making were used as basis.

- **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.
- **Respiratory protection:** Not required.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **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:**

Safety glasses



Tightly sealed goggles

9 Physical and chemical properties

· **General Information**

Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic

· **Change in condition**

Melting point/Melting range:	41°C
Boiling point/Boiling range:	< 35°C

· **Flash point:** 100°C

· **Ignition temperature:** 370°C

· **Self-igniting:** Product is not selfigniting.

(Contd. on page 5)

Trade name: EPOXYHARDER EP-LIJM 2000 B-comp.

(Contd. of page 4)

· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	1.0 Vol %
Upper:	13.0 Vol %
· Vapour pressure at 20°C:	0 hPa
· Density at 20°C:	1 g/cm ³
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Viscosity:	
Dynamic at 20°C:	2000 mPas (DIN 53018)
· Solvent content:	
Organic solvents:	5.0 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

25154-52-3 nonylphenol

Oral	LD50	1620 mg/kg (rat)
------	------	------------------

25620-58-0 trimethylhexane-1,6-diamine

Oral	LD50	900 mg/kg (rat)
------	------	-----------------

1477-55-0 m-phenylenebis(methylamine)

Oral	LD50	1040 mg/kg (rat)
------	------	------------------

Inhalative	LC50/4 h	2.4 mg/l (rat)
------------	----------	----------------

- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Harmful
Corrosive
Irritant
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
- **Sensitisation** May cause sensitisation by skin contact.

12 Ecological information

- **Ecotoxicological effects:**
- **Remark:** Toxic for fish

(Contd. on page 6)

Printing date 24.01.2008

Revision: 24.01.2008

Trade name: EPOXYHARDER EP-LIJM 2000 B-comp.

(Contd. of page 5)

· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralized.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

13 Disposal considerations

· **Product:**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 8 Corrosive substances.
- **Danger code (Kemler):** 80
- **UN-Number:** 3267
- **Packaging group:** III
- **Hazard label** 8
- **Description of goods:** 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Tetradecylamine, nonylphenol)

· **Maritime transport IMDG:**



- **IMDG Class:** 8
- **UN Number:** 3267
- **Label** 8
- **Packaging group:** III
- **EMS Number:** F-A,S-B
- **Marine pollutant:** No
- **Proper shipping name:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Tetradecylamine, nonylphenol)

· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 8
- **UN/ID Number:** 3267
- **Label** 8

(Contd. on page 7)

Trade name: EPOXYHARDER EP-LIJM 2000 B-comp.

(Contd. of page 6)

- **Packaging group:** III
- **Proper shipping name:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Tetradecylamine, nonylphenol)
- **UN "Model Regulation":** UN3267; CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.; 8; III
- **Environmental hazards:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID

15 Regulatory information

- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**
C Corrosive
N Dangerous for the environment
- **Hazard-determining components of labelling:**
trimethylhexane-1,6-diamine
nonylphenol
m-phenylenebis(methylamine)
Tetradecylamine
- **Risk phrases:**
22 Harmful if swallowed.
34 Causes burns.
43 May cause sensitisation by skin contact.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Safety phrases:**
1/2 Keep locked up and out of the reach of children.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- **National regulations:**
- **Technical instructions (air):**

Class	Share in %
NK	5.0
- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

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.

- **Relevant R-phrases**
11 Highly flammable.
20 Harmful by inhalation.
22 Harmful if swallowed.
34 Causes burns.
35 Causes severe burns.
36/37 Irritating to eyes and respiratory system.
36/37/38 Irritating to eyes, respiratory system and skin.
36/38 Irritating to eyes and skin.

(Contd. on page 8)

Printing date 24.01.2008

Revision: 24.01.2008

Trade name: EPOXYHARDER EP-LIJM 2000 B-comp.

(Contd. of page 7)

- 43 May cause sensitisation by skin contact.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
62 Possible risk of impaired fertility.
63 Possible risk of harm to the unborn child.
66 Repeated exposure may cause skin dryness or cracking.

· **Department issuing MSDS:** Product safety department.

· **Contact:** Mr. Eggels

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement internationale concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

GB