

Safety Data Sheet

according to Regulation (EU) No. 1907/2006

BETONAC-FIX 2

Print date : 17.07.2007

Product code : 009

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1. Identification of the substance/preparation and of the company/undertaking**Identification of the substance or preparation**

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Company/undertaking identification

Company name : Leyco Chemische Leyde GmbH
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 Place : D--50999 Köln
 Telephone : ++49 (0) 2236-966-00-0
 Contact person : Eckart Inkemann
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2. Hazards identification**Classification**

Indications of danger : Irritant
 R-phrases :
 Irritating to eyes.
 Irritating to respiratory system.
 Irritating to skin.

Explication of special hazards for human health and environment

Irritating to eyes. Irritating to respiratory system. Irritating to skin.

3. Composition/information on ingredients**Chemical characterization (preparation)****Hazardous components**

EC-No.	CAS-No.	Chemical name	Quantity	Classification
231-595-7	7647-01-0	Hydrogenchlorid; Chlorwasserstoff	10 - 25 %	T, C R23-35
	24939-91-8	Isotridecanoethoxylat	<1 %	Xn R22-41
203-788-6	110-65-6	But-2-in-1,4-diol (vgl. 2-Butin-1,4-diol)	< 1 %	C, T, Xn R34-23/25-21-48/22-43

Full text of each relevant R phrase can be found in heading 16.

4. First aid measures**General information**

Take off contaminated clothing and shoes immediately. Symptoms of poisoning may only appear several hours later. Keep under medical supervision for at least 48 hours.

After inhalation

Move to fresh air. Oxygen or artificial respiration if needed. If symptoms persist, call a physician. Keep warm and in a quiet place.

After contact with skin

Wash off immediately with soap and plenty of water.

After contact with eyes

Flush eye(s) immediately with plenty of water. Consult a physician.

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After ingestion

Call a physician immediately. Immediately give large quantities of water to drink. Move to fresh air.

5. Fire-fighting measures**Suitable extinguishing media**

"Use dry chemical, CO2, water spray or ""alcohol"" foam."

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures**Personal precautions**

Use personal protective equipment. Evacuate personnel to safe areas.

Environmental precautions

Do not let product enter drains. Dilute with water.

Methods for cleaning up/taking up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Neutralise with Use personal protective equipment. Ensure adequate ventilation.

7. Handling and storage**Handling****Advice on safe handling**

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Storage**Further information on storage conditions**

Keep tightly closed.

8. Exposure controls/personal protection**Exposure limit values****Exposure limits (EH40)**

CAS No.	Substance	ml/m ³	mg/m ³	F/ml	Category	Origin
7647-01-0	Hydrogen chloride (gas and aerosol mists)	1	2		TWA (8 h)	WEL
		5	8		STEL (15 min)	WEL

Exposure controls**Protective and hygiene measures**

Keep away from food, drink and animal feeding stuffs. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday. Avoid contact with the skin and the eyes.

Respiratory protection

Breathing apparatus with filter.

Hand protection

protective gloves

Eye protection

tightly fitting safety goggles

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9. Physical and chemical properties**General information**

Physical state : liquid
 Colour : red
 Odour : characteristic

Important health, safety and environmental information

	Test method
pH-Value (at 20 °C) :	< 1
Changes in the physical state	
Melting point :	not applicable
Boiling point :	85 °C
Flash point :	not applicable
Vapour pressure : (at 20 °C)	23 hPa
Vapour pressure : (at 50 °C)	< 110 hPa
Density (at 20 °C) :	1,15 g/cm ³
Water solubility : (at 20 °C)	miscible

Other information

Ignition temperature : not applicable

10. Stability and reactivity**Conditions to avoid**

No decomposition if used as directed.

Materials to avoid

Gives off hydrogen by reaction with metals.

11. Toxicological information**Acute toxicity**

Skin irritation Eye irritation

12. Ecological information**Ecotoxicity**

Contained tenside is more than 90% biodegradable.

Persistence and degradability

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their request or at the request of a detergent manufacturer.

13. Disposal considerations**Contaminated packaging**

Clean container with water.

14. Transport information**Land transport (ADR/RID)**

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UN number : 1789
 ADR/RID class : 8
 Warning plate
 Hazard-no. : 80
 Hazard label : 8
 ADR/RID packing group : III

Inland waterways transport

UN number : 1789
 ADNR class : 8

Marine transport

UN number : 1789
 IMDG code : 8
 Marine pollutant : -
 Hazard label : 8
 IMDG packing group : III
 EmS : 8-15

Air transport

UN/ID number : 1789
 ICAO/IATA-DGR : 8
 Hazard label : 8
 ICAO packing group : III

15. Regulatory information**Labelling**

Danger symbols : Xi - Irritant



Xi - Irritant

R phrases

36 Irritating to eyes.
 37 Irritating to respiratory system.
 38 Irritating to skin.

S phrases

01 Keep locked up.
 02 Keep out of the reach of children.
 24 Avoid contact with skin.
 25 Avoid contact with eyes.
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 36 Wear suitable protective clothing.
 37 Wear suitable gloves.
 39 Wear eye/face protection.

National regulatory information

Water contaminating class : 1 - slightly water contaminating

16. Other information**Full text of R-phrases referred to under sections 2 and 3**

21 Harmful in contact with skin.
 22 Harmful if swallowed.

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23	Toxic by inhalation.
34	Causes burns.
35	Causes severe burns.
36	Irritating to eyes.
37	Irritating to respiratory system.
38	Irritating to skin.
41	Risk of serious damage to eyes.
43	May cause sensitization by skin contact.
23/25	Toxic by inhalation and if swallowed.
48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Other data

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)