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SAFETY DATA SHEET Rekolex FL-10

SDS according to Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex II-EU

SECTION 1: Identification of the substance / mixture and of the company / undertaking

 Date issued
 12.03.2012

 Revision date
 26.02.2015

1.1. Product identifier

Product name Rekolex FL-10

Article no. 12810 12814 12816 12817

1.2. Relevant identified uses of the substance or mixture and uses advised against

Function Description: Detergent

Use of the Laundry Cleaner

substance/preparation

Institutional laundries, for automaic dispensing systems.

Relevant identified uses SU22 Professional uses: publicly accessible (administration, education, entertainment,

services, craftsmen)

PC35 Washing and cleaning products (including solvent based products)
PROC2 Use in closed, continuous process with occasional controlled exposure

1.3. Details of the supplier of the safety data sheet

Company name Rekal Svenska AB

Postcode 64621
City Gnesta
Country Sverige

Downstream user

Company name Rekal Svenska AB

Postal address Box 2
Postcode SE-646 21

City Gnesta
Country Sweden

Tel +46 158 339 00

Fax +46 158 369 48

E-mail <u>lab@rekal.se</u>

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Website www.rekal.se

Enterprise no. 556290-3871

Contact person Anders G Pettersson

1.4. Emergency telephone number

Emergency telephone Tel: 112 or +46 (0)8 331231

Description: In Sweden: Swedish Poisons Information Centre / Giftinformationscentralen www.giftinformation.se – Abroad: Contact nearest hospital or medical advisory center

In case of chemical accident: call national emergency Telephone number 112.

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to 67/548/EEC or 1999/45/EC

C; R35

Classification according to

Skin Corr 1A; H314

Regulation (EC) No 1272/2008

Eye Dam. 1; H318

[CLP / GHS]

2.2. Label elements

Hazard Pictograms (CLP)



Composition on the label Sodium hydroxide (NaOH) 15 – 30 %

Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.

H318 Causes Serious eye damage.

Precautionary statements P102 Keep out of reach of children.

P280 Wear protective gloves/protective clothing/eye protection/face protection. P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician.

2.3. Other hazards

Description of hazard Causes severe burns.

Risk of serious damage to eyes. No particular fire or explosion hazard.

Health effect Corrosive to skin and eyes.

Environmental effects Classification: The product presents no particular risk to the environment. This product does

not contain any PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance Identification Classification Contents

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EC no.: 215-185-5 Skin Corr 1A; H314 Index no.: 011-002-00-6 Met. Corr. 1; H290

REACH Reg. No.: 01-21194-

57892-27-XXXX

Synonyms for section 3: Sodium hydroxide, respirable

Description of the mixture dus

dust The product is a water solution.

Substance comments The full text for all hazard statements is displayed in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General Always seek medical advice if any ill effects occur or there are persistent symptoms. Never

give anything by mouth to an unconscious person. If possible, show this SDS or the label to

the medical personal.

Inhalation Move into fresh air and keep at rest. Rinse nose and mouth with water. Get medical attention if

any discomfort continues.

Skin contact Rinse and wash with plenty of water. Take off all contaminated clothing. Chemical burns must

be treated by a physician.

Eye contact Important! Rinse the eyses immediately with plenty of temperate water (20-30°C) for at least

15 minutes. Keep the eyes wide open. Seek medical advice immediately. Equipment for immediate rinsing of the eyes shall be avialiable at the working place. Continue rinsing during

transport.

Ingestion Rinse mouth with water. Do not induce vomiting. Immediately give a couple of glasses of water

or milk, provided the victim is fully conscious. Seek medical advice if more than a small

quantity has been ingested or if illness or other symptoms occur.

Recommended personal protective equipment for first aid responders

No recommendation given.

4.2. Most important symptoms and effects, both acute and delayed

Information for health

personnel

Treat Symptomatically.

4.3. Indication of any immediate medical attention and special treatment needed

Other Information

No recommendation given.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards

This product is not flammable.

5.3. Advice for firefighters

Fire fighting procedures No recommendation given.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures Avoid contact with skin and eyes.

6.1.1. For non-emergency personnel

Emergency procedures No recommendation given.

6.1.2. For emergency responders

For emergency responders No recommendation given.

6.2. Environmental precautions

Environmental precautionary measures

Prevent large quantities entering drains, groundwater, surface waters or soil. Contact local authorities in case of spillage to drain/aquatic environment.

6.3. Methods and material for containment and cleaning up

Clean up

Small quantities can be washed away with plenty of water. Large quantities are to be contained in sand or absorbent material and transfered to container for disposal or recovery in accordance with local regulations.

6.4. Reference to other sections

Other instructions

Individual protection measures, such as personal protective equipment: see section 8. Waste treatment methods: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling

Work practice should minimize contact. Avoid contact with skin and eyes. Always follow the directions for use of the product.

Protective Safety Measures

hygiene

Advice on general occupational First-aid equipment, including eye wash bottle, must be available at the work site.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Keep in original container. The original package gives a shelf life of at least 30 months. Keep out of reach of children.

7.3. Specific end use(s)

Specific use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Identification Substance TWA Year TWA Year: 2007 Sodium hydroxide (NaOH) CAS no.: 1310-73-2 TWA (8h): 1 mg/m³

> EC no.: 215-185-5 TWA (8h): 1 mg/m³

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Index no.: 011-002-00-6

OEL Short Term Value

Value: 2 mg/m3

REACH Reg. No.: 01-21194-

57892-27-XXXX

Synonyms for section 3: Sodium hydroxide, respirable

dust

Substance Sodium hydroxide (NaOH)

DNEL Group: Worker

Route of exposure: Short term (acute) - Inhalation - Local effect

Value: 1 mg/m³

Group: Consumer

Route of exposure: Long term (repeated) - Inhalation - Local effect

Value: 1 mg/m³

DNEL / PNEC

Summary of risk management

measures, human

No recommendation given.

Summary of risk management measures, environment

No recommendation given.

8.2. Exposure controls

Limitation of exposure on workplace

An eye wash bottle must be available at the work site.

Safety signs







Respiratory protection

Hand protection

Suitable gloves type Use protective gloves made of: Nitrile. Polyvinyl chloride (PVC).

Eye / face protection

Eye protection Use approved safety goggles or face shield.

Skin protection

Skin protection (except hands) Wear appropriate clothing to prevent reasonably probable skin contact.

Appropriate environmental exposure control

Environmental exposure controls

No recommendation given.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid.

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Colour Colourless to pale yellow.

Odour No characteristic odour.

pH Status: In delivery state

Value: ~ 14,00

Status: In aqueous solution

Value: ~ 11,00 Comments: ca 0,1%

Melting point / melting range Value: ~ -5 °C

Boiling point / boiling range Value: ~ 100,00 °C

Flash point Comments: Not determined.

Evaporation rate Comments: Not determined.

Flammability (solid, gas) Not relevant.

Explosion limit Comments: Not determined.

Vapour pressure Comments: Not determined.

Specific gravity Value: 1375 kg/m³ @20 °C

Solubility in water Not entered.

Partition coefficient: n-

octanol/water

Comments: Not determined.

Spontaneous combustability

Decomposition temperature

Comments: Not determined.

Comments: Not determined.

Comments: Not determined.

Oxidising properties Not determined.

9.2. Other information

Physical hazards

Odour limit Not determined.

Other physical and chemical properties

Comments No recommendation given.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no anticipated hazardous decomposition products associated with this material.

10.2. Chemical stability

Stability Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Possibility of hazardous

No information required.

reactions

10.4. Conditions to avoid

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Conditions to avoid

The solution is strongly alkaline and reacts with strong acids with heat generation. In contact with metals generates hydrogen gas, which together with air can form explosive mixtures.

10.5. Incompatible materials

Materials to avoid

Will corrode copper, zinc, aluminium and their alloys.

10.6. Hazardous decomposition products

Hazardous decomposition

No hazardous decomposition products.

products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological data for substances

Substance Sodium hydroxide (NaOH)

Acute toxicity Type of toxicity: Acute

Effect Tested: LD50
Route of exposure: Oral

Value:

Comments: No data available.

Type of toxicity: Acute
Effect Tested: LD50
Route of exposure: Dermal

Value:

Comments: No data available.

Type of toxicity: Acute Effect Tested: LC50

Route of exposure: Inhalation.

Value:

Comments: No data available.

Inhalation Dust is corrosive.

Inhalation of aerosols can cause pain in mouth and throat, coughing and at high concentrations

breathing difficulties.

Skin contact Burning pain and severe corrosive skin damage.

Eye contact Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is

imperative.

Ingestion Corrosive.

May cause severe smarting pain , corrosive burns, chest pain, vomiting and possibly shock. Even ingestion of a small quantity may cause burns. Risk of slow-healing painful burns in

aesophagus.

Mutagenicity No known chronic or acute health risks.

Carcinogenicity No known chronic or acute health risks.

Reproductive toxicity

No known chronic or acute health risks.

STOT-single exposure None.

STOT-repeated exposure None.

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Other information regarding health hazards

General Toxicological information not available for the product, only for the components.

Corrosive.

Acute toxicity, Mixture estimate

Oral Toxicological information not available for the product, only for the components.

Potential acute effects

Inhalation Vapours and spray mist may irritate throat and respiratory system and cause coughing.

Skin contact Burning pain and severe corrosive skin damage. Skin contact may cause pain, redness,

blisters and chemical burns. Also diluted solutions of the product may cause damage.

Eye contact Strongly corrosive. Causes severe burns. Immediate first aid is imperative. Vapour or spray

may cause eye damage, impaired sight or blindness.

Ingestion Corrosive. Even small amounts may cause serious damage. Risk of corrosion in the throat,

the oesophagus and the stomach as well as shock.

Aspiration hazard No known chronic or acute health risks.

Delayed effects / repeated exposure

Sensitisation No known chronic or acute health risks.

STOT-single exposure No known chronic or acute health risks.

STOT-repeated exposure No known chronic or acute health risks.

Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity No known chronic or acute health risks.

Mutagenicity No known chronic or acute health risks.

Teratogenic properties No known chronic or acute health risks.

Reproductive toxicity No known chronic or acute health risks.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Ecotoxicological information not available for the product, only for the components. Not

classified as dangerous to the environment.

May lead to a local change in acidity in the aquatic environment which may have adverse

effects on aquatic organisms.

The product is free from phosphates.

Aquatic, comments Data lacking.

12.2. Persistence and degradability

Substance Sodium hydroxide (NaOH)

Aquatic, comments Aquatic toxicity is merely pH-dependant.

Biodegradability Comments: Not applicable.

Chemical oxygen demand

(COD)

Comments: Not applicable.

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12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation: Is not expected to be bioaccumulable.

12.4. Mobility in soil

Water solubility Comments: Not entered.

12.5. Results of PBT and vPvB assessment

PBT assessment results This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Environmental details,

No recommendation given.

summation

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal

Small amounts may be flushed with water to sewer. Larger volumes must be sent to approved plant for destruction. Recover and reclaim or recycle, if practical. Product residues are not

harmfull to the environment.

Product classified as

hazardous waste

as No

Packaging classified as

hazardous waste

140

Yes

EWC waste code

EWC: 200115 alkalines

Other Information

Used cleaning solution in normal use concentration can be let out in ordinary sewer system. Empty, cleaned containers can be recycled or incinerated according to local legislation.

SECTION 14: Transport information

14.1. UN number

 ADR / RID / ADN
 1824

 IMDG
 1824

 ICAO/IATA
 1824

14.2. UN proper shipping name

ADR / RID / ADN SODIUM HYDROXIDE SOLUTION

IMDG SODIUM HYDROXIDE SOLUTION

ICAO/IATA SODIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es)

 ADR / RID / ADN
 8

 Hazard no.
 80

 RID
 8

 IMDG
 8

 ICAO/IATA
 8

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14.4. Packing group

RID

IMDG II
ICAO/IATA II

14.5. Environmental hazards

Comments

The product is assessed and classified as "no environmental hazard".

14.6. Special precautions for user

EmS

F-A, S-B

II

Special safety precautions for

Tunnel restriction code: (E)

user

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Additional information.

Additional information.

Not relevant.

SECTION 15: Regulatory information

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

EEC-directive

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

The surfactant(s) contained in this preparation complies(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 direct request or at the request of a detergent manufacturer.

Legislation and regulations

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

Content according to Regulation (EC) No 648/2004: 5-15% polycarboxylates,

The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895). Safety Data Sheet (SDS) according to commission regulation (EU) no 453/2010 annex I.

15.2. Chemical safety assessment

Chemical safety assessment performed

No

CSR required

No

SECTION 16: Other information

Supplier's notes

The information on this data sheet represents our current data and is reliable provided that the

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product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

Classification according to Regulation (EC) No 1272/2008

Skin Corr 1A; H314; Eye Dam. 1; H318;

[CLP / GHS]

List of relevant R-phrases (under headings 2 and 3).

R35 Causes severe burns.

List of relevant H-phrases

H318 Causes Serious eye damage. H290 May be corrosive to metals.

(Section 2 and 3).

H314 Causes severe skin burns and eye damage.

Additional information

For restrictions on use see section 15. The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

The product is free from phosphates.

Information which has been added, deleted or revised

Changes in the following sections: 1, 2, 3, 4, 8, 11.

Prepared by

Sara Nilsson