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SAFETY DATA SHEET

Rekolex FL-30

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 24.08.2012 Revision date

1.1. Product identifier

Product name Rekolex FL-30

Article no. 12830 12838 12840

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

Function Description: Liquid Detergent

26.02.2015

Product group Laundry Cleaner

Use of the 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

Uses advised against Not for manual dispensing.

1.3. Details of the supplier of the safety data sheet

Downstream user

Company name Rekal Svenska AB

Postal address Box 2

Postcode SE-646 21

City Gnesta

Country Sweden

Telephone number +46 158 339 00

Fax +46 158 369 48

Email lab@rekal.se

Website www.rekal.se Rekolex FL-30 - Version 2 Page 2 of 13

Enterprise No. 556290-3871

1.4. Emergency telephone number

Emergency telephone Telephone number: 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

Xi; R41

Classification according to Regulation (EC) No 1272/

2008 [CLP / GHS]

Eye Dam. 1; H318

Skin Irrit. 2; H315

2.2. Label elements

Hazard pictograms (CLP)



Composition on the label Alcoholethoxylate 1 – 10 %, Alkylalcoholethoxylate propoxylate benzyl ether 1 – 10 %,

Quaternary C12-14 alkyl methyl amine ethoxylate, methyl chloride 1 – 5 %,

Talgalkylbis(2-hydroxietyl)aminoxid 1 – 5 %

Signal word Danger

Hazard statements H318 Causes Serious eye damage. H315 Causes skin irritation.

Precautionary statements P102 Keep out of reach of children. 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.

Supplemental label informa-

tion

P280 Wear protective gloves and eye protection/face protection.

2.3. Other hazards

PBT / vPvB This product does not contain any PBT or vPvB substances.

Description of hazard No particular fire or explosion hazard.

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

Other hazards No recommendation given.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

SubstanceIdentificationClassificationContentsAlcoholethoxylateCAS No.: 68439-46-3Xn,Xi; R22,R411 – 10 %

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		EC No.: polymer	Eye Dam. 1; H318 Acute tox. 4; H302 Note : No OEL.	
Alkylalcoholethoxylate propoxy benzyl ether	/late	CAS No.: 68154-99-4 EC No.: polymer	Xi; R38,R41 Skin Irrit. 2; H315 Eye Dam. 1; H318	1 – 10 %
Ethanol		CAS No.: 64-17-5 EC No.: 200-578-6	F; R11 Flam. Liq. 2; H225	1 – 5 %
Quaternary C12-14 alkyl methyl CAS No.: 863679-20 amine ethoxylate, methyl chloride		CAS No.: 863679-20-3	Xn; R22,R38,R41 Acute tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318	1 – 5 %
Talgalkylbis(2-hydroxietyl)aminoxid		CAS No.: 61791-46-6 EC No.: 263-179-6	C; R34 N; R50 Skin Corr 1C; H314 Aquatic Acute 1; H400	1 – 5 %
Description of the mixture	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.

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

Never give anything by mouth to an unconscious person. If possible, show this SDS or

the label to the medical personal.

Inhalation Fresh air.

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

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.

Seek medical advice.

Ingestion Rinse mouth thoroughly with water and give large amounts of milk or water to people not

unconscious. Do not induce vomiting. 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

No recommendation given.

responders

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

Separate first aid equipment Eyewash bottle with clean water.

SECTION 5: Firefighting measures

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5.1. Extinguishing media

Improper extinguishing me-

dia

5.2. Special hazards arising from the substance or mixture

Hazardous combustion prod- No re

ucts

No recommendation given.

5.3. Advice for firefighters

Fire fighting procedures No specific fire fighting procedure given.

Other information No recommendation given.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection mea-

sures

Avoid contact with skin and eyes. Wear necessary protective equipment.

6.1.1. For non-emergency personnel

Personal precautions

No recommendation given.

6.1.2. For emergency responders

For emergency responders

No recommendation given.

6.2. Environmental precautions

Environmental precautionary measures

ary

Prevent large quantities entering drains, groundwater, surface waters or soil.

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 transferred to container for disposal or recovery in accordance with local regulations. Inform the local authorities.

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

Avoid contact with skin and eyes. Handle in accordance with good occupational hygiene and safety practices. Avoid repeated or long contact with unprotected skin. Always follow

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the directions for use of the product.

Protective safety measures

Advice on general occupational hygiene

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.

Other Information Keep out of reach of children.

Conditions for safe storage

Storage stabilit The original package gives a shelf life of at least 30 months.

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

SubstanceIdentificationValueTWA YearEthanolCAS No.: 64-17-5TWA (8h): 500 ppmTWA Year: 1993

EC No.: 200-578-6 TWA (8h): 1000 mg/m³

OEL short term value Value: 1000 ppm OEL short term value Value: 1900 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

Equipment for immediate rinsing of the eyes shall be avialable at the workingplace in case of risk of splashes from the product.

Safety signs







Respiratory protection

Respiratory protection Respiratory protection not required.

Hand protection

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Hand protection Use protective gloves.

Suitable gloves type Neoprene, nitrile, polyethylene or PVC.

Eye / face protection

Eye protection Use approved safety goggles or face shield.

Skin protection

Skin protection (except

hands)

No special precautions.

Appropriate environmental exposure control

Environmental exposure con-

trols

No recommendation given.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid.

Colourless.

Odour Sweetish.

Odour limit Comments: Not determined

pH Status: In delivery state

Value: ~ 9,5

Status: In aqueous solution

Value: ~ 9

Melting point / melting range Value: 0 °C

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

Flash point Comments: Non-flammable.

Evaporation rate Comments: Not determined.

Flammability (solid, gas) Not relevant.

Explosion limit Comments: Not explosive.

Vapour pressure Comments: Not determined.

Vapour density Comments: Not determined.

Specific gravity Value: 1025 kg/m³

Temperature: 20 °C

Solubility description Soluble in water.

Partition coefficient: n-oc-

tanol/water

Comments: Not determined.

Spontaneous combustability Comments: Not determined.

Decomposition temperature Comments: Not determined.

Viscosity Comments: Not determined.

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Oxidising properties

Does not meet the criteria for oxidising.

9.2. Other information

Other physical and chemical properties

Comments

Information given concerns the concentrated solution.

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 the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous re-

No information required.

actions

10.4. Conditions to avoid

Conditions to avoid

No information required.

10.5. Incompatible materials

Materials to avoid

No incompatible groups noted.

10.6. Hazardous decomposition products

Hazardous decomposition

products

No hazardous decomposition products.

Other information

Other information

No recommendation given.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological data for substances

Substance Alcoholethoxylate

Acute toxicity Type of toxicity: Acute

Effect tested: LD50
Route of exposure: Oral
Value: ~ 300-2000 mg/kg
Animal test species: rattus

Comments: The value is estimated from tests on similar products.

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Type of toxicity: Acute Effect tested: LC50

Route of exposure: Inhalation.

Duration: 4h **Value:** > 20,1 mg/l

Animal test species: rattus

Type of toxicity: Acute Effect tested: LD50 Route of exposure: Dermal Value: > 2000-5000 mg/kg bw

Other toxicological data NOAEL : 250mg/kg bw repeated administration

Specific target organ toxicity - repeated exposure: NOAEL 250mg/kg bw

Ingestion Acute oral toxicity: LD50: 300,1 – 2 000 mg/kg (Rat)

NOEL: 250mg/kg

Skin corrosion / irritation Result: No skin irritation

Serious eye damage / irrita-

tion

May cause irreversible eye damage.

Respiratory or skin sensitisa-

tion

Result: Not sensitizing.

Mutagenicity Result: negative

Carcinogenicity, other infor-

mation

Result: negative

STOT-repeated exposure NOEL: 250mg/kg

Substance Alkylalcoholethoxylate propoxylate benzyl ether

Acute toxicity Type of toxicity: Acute

Effect tested: LD50 Route of exposure: Oral Value: 2414 mg/kg

Animal test species: Rattus

Type of toxicity: Acute Effect tested: LD50

Route of exposure: Dermal Value: > 2000 mg/kg Animal test species: Rabbit

Type of toxicity: Acute Effect tested: LC50

Route of exposure: Inhalation.

Duration: 1h **Value:** > 7,1 mg/l

Animal test species: Rattus

Skin contact Irritating.

Eye contact Causes serious eye damage.

Substance Quaternary C12-14 alkyl methyl amine ethoxylate, methyl chloride

Acute toxicity Type of toxicity: Acute

Effect tested: LD50

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Route of exposure: Oral Value: > 300-2000 mg/kg Animal test species: Rattus

Skin contact Irritating.

Eye contact Risk of serious damage to eyes.

Respiratory or skin sensitisa-

tion

Not sensitising.

Carcinogenicity, other infor-

mation

Genotoxicity in vitro: negative

Other information regarding health hazards

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

Acute toxicity, Mixture estimate

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

Potential acute effects

Inhalation No specific health warnings noted.

Skin contact Irritating to skin.

Eye contact Corrosive. Immediate first aid is necessary.

Ingestion Ingestion may cause severe irritation of the mouth, the oesophagus and the

gastrointestinal tract.

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, other infor-

mation

Mutagenicity

No known chronic or acute health risks.

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

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

classified as dangerous to the environment. The product is free from phosphates.

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12.2. Persistence and degradability

Substance Alcoholethoxylate

Acute aquatic, fish Value: ~ 1,1-10 mg/l

Test duration: 96h Species: fish Method: LC50

Acute aquatic, algae Value: ~ 1,1-10 mg/l

Test duration: 48h

Species: Skeletonema costatum

Method: EC50

Acute aquatic, Daphnia Value: ~ 1,1-10 mg/l

Test duration: 48h Species: Daphnia magna

Method: EC50

Aquatic, comments active sludge / micro organisms:

EC50 410mg/l exposure time 4h, Species: Nitrifying bacteria

Biodegradability Value: > 60% CO2

Method: OECD301B Test period: 28d

Substance Alkylalcoholethoxylate propoxylate benzyl ether

Acute aquatic, Daphnia Value: 6,3 mg/l

Test duration: 48h Species: Daphnia magna

Method: EC50

Aquatic, comments IC50 (bacteria), 16h: 4900mg/l

Biodegradability Value: > 60 %

Method: OECD 301B, 301F

Test period: 28d

Substance Ethanol

Acute aquatic, fish Value: 13480 mg/l

Test duration: 96h

Species: Pimphales promelas **Method:** LC 50 (OECD 203)

Acute aquatic, algae Value: 5000 mg/l

Test duration: 72h

Species: Scenedesmus sp.

Method: IC50

Acute aquatic, Daphnia Value: 7800 mg/l

Test duration: 48h Method: EC50

Substance Quaternary C12-14 alkyl methyl amine ethoxylate, methyl chloride

Acute aquatic, fish Value: > 10 -100mg/l

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Test duration: 96h Method: LC50

Acute aquatic, algae Value: > 1 -10mg/l

Test duration: 72h Method: EC50

Acute aquatic, Daphnia Value: > 1 -10mg/l

Test duration: 48h Method: EC50

Biodegradability Value: > 60 % BOD

Method: OECD 301D Test period: 28d

Persistence and degradabili-

ty, comments

All organic components are considered biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation: Is not expected to be bioaccumulable.

12.4. Mobility in soil

Mobility Not entered.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

Other adverse effects, comments

No recommendation given.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal

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

Product classified as haz-

ardous waste

Yes

Packaging classified as haz-

ardous waste

No

EWC waste code

EWC: 200129 detergents containing dangerous substances

Other information

When handling waste, consideration should be made to the safety precautions applying to handling of the product. 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

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14.1. UN number

Comments

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.2. UN proper shipping name

Comments

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.3. Transport hazard class(es)

Comments

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.4. Packing group

Comments

Not relevant.

Not relevant.

14.5. Environmental hazards

Comments

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

14.6. Special precautions for user

Special safety precautions

•

for user

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

Product name

Ship type required

Pollution category __

Additional information

Additional information

No other information noted.

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.

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 (EEC) 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.

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Content according to Regulation (EC) No 648/2004: 15-30% non-ionic surfactants, <5% cationic surfactants, soap,

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

No

performed 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 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 [CLP / GHS]

Skin Irrit. 2; H315; Eye Dam. 1; H318;

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

R50 Very toxic to aquatic organisms.

R11 Highly flammable.

R41 Risk of serious damage to eyes.

R38 Irritating to skin. R34 Causes burns. R22 Harmful if swallowed.

List of relevant H-phrases (Section 2 and 3)

H318 Causes Serious eye damage.

H302 Harmful if swallowed. H400 Very toxic to aquatic life. H315 Causes skin irritation.

H314 Causes severe skin burns and eye damage.

H225 Highly flammable liquid and vapour.

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.

Information added, deleted

or revised

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

Prepared by

Sara Nilsson