

Randers Kemiske Industri

Safety data sheet

Prepared 25-11-2012
Revision: (date) 03-10-2024
SDS version 2.0

ITEM 1: Identification of the substance/mixture and of the company/company

1.1. Product identifier

Trade name: Lotte Dishwashing
Product no.: 801.001/-005
UFI: MEHA-8VWG-320Y-D365

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

Recommended uses:

Liquid hand wash that effectively removes grease and food residues. Can also be used for lighter cleaning tasks.

Dosage:

Dishwashing: Approx. 0.05 dl. to 6 l. water.

Cleaning: Approx. 0.5 dl. to 10 l. water.

Uses advised against: May only

be used as described above, other uses must be made in consultation with the supplier.

1.3. Details of the supplier of the safety data sheet **Company name and address:**

Randers Chemical Industry A/S

Kristrupvej 158
DK-8960 Randers SØ

Tel.: 86 41 10 22

Fax. 86 41 11 45

www.rkimiljo.dk

Contact person and email:

post@rkimiljo.dk

The safety data sheet has been prepared and validated by:

Mediator ApS, Centervej 2, 6000 Kolding. Consultant: DH

1.4. Emergency

telephone line: +45 82 12 12 12

ITEM 2: Hazard identification

2.1. Classification of the substance or mixture CLP

(1272/2008):

Eye Dam. 1; H318

Wording of H-phrases - see below in point 16.

2.2. Marking elements



Signal word:

Danger

Causes serious eye damage. (H318)

Wear protective gloves/eye protection/face protection. (P280)

IF IN EYES: Rinse carefully with water for several minutes. Remove any contact lenses if this can be done easily. Continue rinsing.

Call a POISON CENTER/doctor immediately. (P305 + P351 + P338 + P310)



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2.3. Other dangers

-

Other marking:

-

Other

The product does not meet the criteria for PBT or vPvB.

SECTION 3: Composition of/information on ingredients

3.1 /3.2. Substances / Mixtures

| Ingredient | Index no. / REACH Reg. no. - / | CAS no. | EC no. | CLP classification | wt/wt % | Note |
|---|-----------------------------------|-------------|-----------|--|---------|------|
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts | 01-2119488639-16-xxxx | 68891-38-3 | 500-234-8 | Skin Irritation. 2;H315, Eye Dam. 1;H318, Aquatic Chronic 3;H412 | 5 - 10 | - |
| D-Glucopyranose, oligomeric, Alkyl polyglucoside C10-16 | - / 01-2119489418-23-xxxx | 110615-47-9 | 600-975-8 | Skin Irritation. 2;H315, Eye Dam. 1; H318 | 1 - < 3 | 1 |
| Alkyl polyglycoside | - / 01-2119488530-36-xxxx | 68515-73-1 | 500-220-1 | Eye Dam. 1; H318 | 1 - < 3 | 1 |

1) Specific concentration limits.

Wording of H-phrases - see below in point 16.

SECTION 4: First aid measures

4.1. Description of first aid measures *Inhalation:*

In case of discomfort: Seek fresh air.
Consult a doctor in case of persistent discomfort.

Intake:

Rinse your mouth thoroughly and drink 1-2 glasses of water in small sips.
Seek medical attention immediately.

Skin contact:

Remove contaminated clothing.
Wash the skin long and thoroughly with water.
Seek medical attention in case of discomfort.

Eye contact:

Wash the eye well, remove any contact lenses and rinse immediately with water (preferably from an eyewash) and seek medical attention immediately. Continue rinsing until the doctor takes over the treatment.

Other information:

When consulting a doctor, bring the safety data sheet or label.

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

effects: The product contains substances that are local irritants in case of skin/eye contact or inhalation. Contact with local irritants can result in the contact area becoming more exposed to the absorption of harmful substances such as allergens.
Causes serious eye damage.

4.3. Indication of immediate medical attention and special treatment needed Show this safety data sheet to doctor or emergency department.



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SECTION 5: Fire fighting

5.1. Extinguishing media

Extinguish with powder, foam, carbonic acid or water mist.
Do not use a water jet as this can spread the fire.

5.2. Special hazards associated with the substance or mixture The product is not immediately flammable. Avoid inhalation of vapors and fumes - seek fresh air.
Can develop health-hazardous flue gases with carbon monoxide in the event of a fire.
In case of fire, thick black smoke will be produced.
Exposure to decomposition products can cause health damage.

5.3. Instructions for firefighters Firefighters should use suitable protective equipment.

SECTION 6: Precautions against accidental release

6.1. Personal safety measures, personal protective equipment and emergency procedures Use personal protective equipment - see section 8.
Avoid contact with skin and eyes.

6.2. Environmental protection measures
Avoid unnecessary release to the environment.

6.3. Methods and equipment for containment and cleaning
Spills are contained and collected with sand or other absorbent material and transferred to suitable waste containers.
Rinse afterwards with water.

6.4. Reference to other points See point 8 for type of protective equipment.
See point 13 for disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling See under point 8 for information on precautions for use and personal protective equipment.
There must be access to running water and eyewash.

7.2. Conditions for safe storage, including any incompatibility The product should be stored securely, out of the reach of children and not together with food, feed, medicines etc.
Should be stored in tightly closed original packaging.
Must be stored in a dry, cool and ventilated place.

7.3. Special uses See use section 1.

SECTION 8: Exposure controls/personal protective equipment

8.1. Control parameters

Limit values according to executive order no. 291 of 19/03/2024 on limit values for substances and materials (chemical agents) in the working environment:

DNEL/PNEC values:

DNEL Alcohols, C12-14, ethoxylated, sulfates, sodium salts

| | Workers 175 | Consumers |
|-------------------------------|-------------------------------------|-----------------------|
| Inhalation - Chronic Systemic | mg/m ³ 2750 | 52 mg/m ³ |
| Dermal - Chronic Systemic | mg/kg bw/day 132 µg/cm ² | 1650 mg/kg bw/day |
| Dermal - Chronic Local | cm ² | 79 µg/cm ² |
| Oral - Chronic Systemic | - | 15 mg/kg bw/day |

DNEL D-Glucopyranose, oligomeric, C10-16-alkyl glycosides

| | Workers 420 | Consumers |
|-------------------------------|---------------------|-----------------------|
| Inhalation - Chronic Systemic | mg/m ³ | 124 mg/m ³ |
| Dermal - Chronic Systemic | 595000 mg/kg bw/day | 357000 mg/kg bw/day |
| Oral - Chronic Systemic | - | 35.7 mg/kg bw/day |

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DNEL Alkyl polyglycoside

| | Workers 420 mg/ | Consumers |
|-------------------------------|-----------------------|-----------------------|
| Inhalation - Chronic Systemic | m ³ 595000 | 124 mg/m ³ |
| Dermal - Chronic Systemic | mg/kg bw/day | 357000 mg/kg bw/day |
| Oral - Chronic Systemic | - | 35.7 mg/kg bw/day |

PNEC Alcohols, C12-14, ethoxylated, sulfates, sodium salts

| | |
|------------------------------------|-------------------|
| Fresh water | 0.24 mg/L |
| Intermittent releases (Freshwater) | 0.071 mg/L |
| Sea water | 0.024 mg/L |
| Land | 7.5 mg/kg soil dw |

PNEC D-Glucopyranose, oligomeric, C10-16-alkyl glycosides

| | |
|------------------------------------|---------------------|
| Fresh water | 0.176 mg/L |
| Intermittent releases (Freshwater) | 0.029 mg/L |
| Sea water | 0.018 mg/L |
| Land | 0.654 mg/kg soil dw |

PNEC Alkyl polyglycoside

| | |
|------------------------------------|---------------------|
| Fresh water | 0.176 mg/L |
| Intermittent releases (Freshwater) | 0.27 mg/L |
| Sea water | 0.018 mg/L |
| Land | 0.654 mg/kg soil dw |

8.2. Exposure controls There is no exposure scenario for this product.

Appropriate exposure control measures:

Use protective equipment as indicated below.
Wash hands before breaks, toilet visits and after finishing work.
Do not eat, drink or smoke while using this product.

Personal protective equipment:



Respiratory protection:

Not required.

Protection of hands:

Usually not required.
Plastic or rubber gloves are recommended.

Eye/face protection:

Use safety glasses or a face shield.

Protection of skin:

Not required.

Measures to limit environmental exposure:

It must be ensured that local regulations for discharge are observed.



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties Physical form Color: Odor:

| | |
|--|------------------|
| Melting point/ | Viscous |
| Freezing | Colorless |
| point | Floral scent |
| (°C): Boiling point or initial boiling point | - |
| and boiling range (°C): Flammability: Lower and upper explosion limit (vol-%): Flash point | - |
| (°C): Autoignition | - |
| temperature (°C): Decomposition temperature (°C): pH: | - |
| Kinematic viscosity | - |
| (mm ² /s): Solubility: Partition coefficient n-octanol/water (log value): Vapor | - |
| | 7 ± 0.5 |
| pressure: Density and/or relative density: | - |
| Relative vapor | Soluble in water |
| density: Particle properties: | - |
| | - |
| | - |
| | - |

9.2. Other information

No.

SECTION 10: Stability and reactivity

10.1. Reactivity No

data.

10.2. Chemical stability The

product is stable when used according to the supplier's instructions.

10.3. Risk of dangerous reactions

None known.

10.4. Conditions to avoid None

known.

10.5. Materials to avoid

No one known.

10.6. Hazardous decomposition products

None under recommended storage conditions.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) no. 1272/2008**Acute toxicity:**

The database does not give rise to classification.

| Substance | Exposure route | Art | Testing | Result |
|---|----------------|--------|---------|-----------------|
| D-Glucopyranose, oligomeric, Alkyl polyglucoside C10-16 | Oral | Rat | LD50 | > 5000 mg/kg bw |
| D-Glucopyranose, oligomeric, Alkyl polyglucoside C10-16 | Dermal | Rabbit | LD50 | > 2000 mg/kg bw |
| Alkyl polyglycoside | Oral | Rat | LD50 | > 2000 mg/kg bw |
| Alkyl polyglycoside | Dermal | Rabbit | LD50 | > 2000 mg/kg bw |



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Skin corrosion/irritation:

May be irritating to the skin - may cause redness.

Serious eye damage/eye irritation:

Causes serious eye damage.

Respiratory sensitization or skin sensitization:

The database does not give rise to classification.

Germ cell mutagenicity:

The database does not give rise to classification.

Carcinogenicity:

The database does not give rise to classification.

Reproductive toxicity:

The database does not give rise to classification.

Single STOT exposure:

The database does not give rise to classification.

Repeated STOT exposures:

The database does not give rise to classification.

Aspiration hazard:

The database does not give rise to classification.

11.2. Information on other hazards

Test data not available.

SECTION 12: Environmental information

12.1. Toxicity

| Substance | Duration of the test Art | Testing | Result |
|---|--------------------------|---------|-------------|
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts | 96 Hours Fish | LC50 | 7.1 mg/L |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts | 48 hours Daphnia | EC50 | 7.4 mg/L |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts | 72 hours Algae | EC50 | 27.7 mg/L |
| D-Glucopyranose, oligomeric, Alkyl polyglucoside C10-16 | 96 Hours Fish | LC50 | 2.95 mg/L |
| D-Glucopyranose, oligomeric, Alkyl polyglucoside C10-16 | 48 hours Daphnia | LC50 | 7 mg/L |
| D-Glucopyranose, oligomeric, Alkyl polyglucoside C10-16 | 72 hours Algae | EC50 | 5 mg/L |
| Alkyl polyglycoside | 96 Hours Fish | LC50 | 100.81 mg/L |
| Alkyl polyglycoside | 48 hours Daphnia | EC50 | > 100 mg/L |
| Alkyl polyglycoside | 72 hours Algae | EC50 | 21 mg/L |



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12.2. Persistence and degradability Substance**Degradability in the aquatic environment**

| | | Testing | Result |
|---|-----|----------------------|----------------|
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts | Yes | OECD Guideline 301 D | 28 Days >= 77% |
| D-Glucopyranose, oligomeric, Alkyl polyglucoside C10-16 | Yes | OECD Guideline 301 D | 28 days 88% |
| Alkyl polyglycoside | Yes | OECD Guideline 301 E | 28 days 100% |

12.3. Bioaccumulative potential Substance**Potentially bioaccumulative**

| | | LogPow |
|---|----|----------|
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts | No | 0.3 |
| D-Glucopyranose, oligomeric, Alkyl polyglucoside C10-16 | No | <= -0.07 |
| Alkyl polyglycoside | No | <= -0.07 |

12.4. Mobility in soil

Test data not available.

12.5. Results of PBT and vPvB assessment

The product does not meet the criteria for PBT or vPvB.

12.6. Hormone-disrupting properties

Test data not available.

12.7. Other adverse effects

None.

SECTION 13: Disposal**13.1. Methods for waste treatment**

The product is covered by the regulations on hazardous waste.

Spills and waste are collected in closed and tight containers, which are disposed of via the municipal waste scheme for hazardous waste with the specifications below.

| EAK code | Description | Chemical waste group |
|----------|--|----------------------|
| 20 01 29 | Detergents containing dangerous substances | H |

Special marking:

-

Contaminated packaging:

Empty packaging and residues must be handed over to the municipal waste scheme for hazardous waste.



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SECTION 14: Transport information

The product is not covered by the regulations on the transport of dangerous goods by road and sea according to ADR, IMDG and IATA.

14.1 - 14.4.

ADR

-

IMDG/IATA

-

14.5. Environmental hazards

-

14.6. Special precautions for the user

-

14.7. Bulk transport by sea according to IMO instruments

Not relevant.

SECTION 15: Information on regulation

15.1. Special regulations/specific legislation for the substance or mixture with regard to safety, health and the environment

Sources:

The Norwegian Working Environment Authority's order no. 301 of 13 May 1993 on determining code numbers, with later amendments.

Order on work with substances and materials (chemical agents) - BEK no. 381 of 12/04/2023, with subsequent amendments.

The Norwegian Working Environment Authority's order no. 1049 of 30 May 2021 on youth work, with later amendments.

Executive order no. 1369 of 25 November 2015 on marketing and labeling of volatile organic compounds in certain paints and varnishes as well as products for car refinishing.

Executive order no. 1565 of 19 December 2022 on the import and sale of highly toxic and toxic substances and mixtures, etc., on the storage and reporting of theft of certain substances and mixtures and on the prohibition of misleading statements when marketing substances and mixtures.

Executive order no. 6 of 4 January 2023 of the Chemicals Act.

Executive order no. 1794 of 18/12/2015 on special duties for manufacturers, suppliers and importers etc. of substances and materials under the Act on the Working Environment, with subsequent amendments.

Executive order no. 291 of 19/03/2024 on limit values for substances and materials (chemical agents) in the working environment, with subsequent amendments.

Executive order no. 573 of 23/05/2024 on waste, with later amendments.

Other marking:

PR number: 2473558

Declaration according to EU Regulation no. 648/2004:

5% or more but less than 15%:

Anionic surfactants

Below 5%:

Nonionic surfactants

Perfume (Amyl Cinnamal, Benzyl Benzoate and Citronellol, Linalool)

Preservatives (2-Phenoxyethanol, Benzoic acid)

Limitations of use:

Young people under the age of 18 may not professionally use or be exposed to the product. However, young people over the age of 15 are exempt from this rule if the product is included as a necessary part of an education. (cf., however, the Norwegian Working Environment Authority's Executive Order on youth work).

Requirements for special education:

-

15.2. Chemical Safety Assessment

No.



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SECTION 16: Other information

Prepared on the basis of EU regulation 1907/2006 (REACH)

Other information:

Sources:

EU regulation no. 1907/2006 (REACH), with later adaptations.

EU regulation no. 1272/2008 (CLP), with later adaptations.

Directive 2008/98/EC

ECHA – The European Chemicals Agency.

The full wording of H sentences referred to in points 2+3:

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

Classification according to Regulation (EC) no. 1272/2008:

Eye Dam. 1; H318 Calculation method

Abbreviations and acronyms used in the safety data sheet:

REACH: Registration, assessment and approval of and restrictions on chemicals. Regulation (EC) no. 1907/2006.

CLP: Regulation (EC) no. 1272/2008 on classification, labeling and packaging.

CAS No.: Chemical Abstracts Service number.

EC no.: EINECS and ELINCS number (see also EINECS and ELINCS).

DNEL: Derived No-Effect Level (Derived No-Effect Level).

PNEC: Predicted No Effect Concentration (Predicted No Effect Concentration).

STOT: Specific Target Organ Toxicity (Specific Target Organ Toxicity).

LD50: Lethal Dose for 50% of a test population.

LC50: Lethal concentration for 50% of a test population.

EC50: The effective substance concentration that causes 50% of the maximum response.

PBT: Persistent, Bioaccumulative and Toxic substance (Persistent, Bioaccumulative and Toxic).

vPvB: Very persistent and very bioaccumulative (Very Persistent and Very Bioaccumulative).

NOEC: The highest tested concentration where, in a study, no statistically significant effect is observed in the exposed population compared to an appropriate control group (No Observed Effect Concentration).

NOAEL: The highest tested dose or the highest tested exposure level at which no statistically significant increases in the frequency or severity of adverse effects occur between the exposed population and an appropriate control group. Some effects may occur at this level, but they are not considered harmful or precursors of harmful effects.

Other:

The information in this safety data sheet only applies to the product mentioned in point 1 and is not necessarily valid when used together with other products.

Changes have been made in the following points:

General update.

This safety data sheet replaces version:

1.9