



REIN ABER RICHTIG  
E.MAYR REINIGUNGSTECHNIK

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 6 Mar 2024

Print date: 26 Jan 2026

Version: 2

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## Ligreen AC

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

#### 1.1. Product identifier

Trade name/designation:

Ligreen AC - Item No.:0525 - 12x1l/Item No.:0529 - 10l

UFI:

ARNY-F71S-K43T-KAY1

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

Use of the substance/mixture:

Cleaning agent

#### 1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

**E.MAYR Reinigungstechnik GesmbH**

Ortsstraße 285

A-2331 Vösendorf

Austria

Telephone: +43 (0) 1 699 17 64 -0

Telefax: +43 (0) 1 699 17 64 - 33

E-mail: office@e-mayr.at

Website: www.reinaberrichtig.at

#### 1.4. Emergency telephone number

24h: Poison Control Centre for Austria: +43 (0)1 406 43 43-0

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	

#### \* 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



**GHS07**

Exclamation mark

Signal word: Warning

Hazard components for labelling:

Fettalkohol-C12/14-ethersulfat, Natriumsalz

Hazard statements for health hazards	
H319	Causes serious eye irritation.

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Supplemental hazard information: none

### Precautionary statements Prevention

P280 Wear protective gloves and eye protection/face protection.

### Precautionary statements Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

### Special rules for supplemental label elements for certain mixtures:

10,6 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

### 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

### \* 3.2. Mixtures

#### Description:

aqueous solution

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 68891-38-3 EC No.: 500-234-8 REACH No.: 01-2119488639-16	<b>Fettalkohol-C12/14-ethersulfat, Natriumsalz</b> Aquatic Chronic 3 (H412), Eye Dam. 1 (H318), Skin Irrit. 2 (H315) ⚠ Danger <b>Specific concentration limit (SCL)</b> Eye Irrit. 2; H319: $5\% \leq C < 10\%$ Eye Dam. 1; H318: $10\% \leq C < 100\%$ <b>Acute Toxicity Estimate</b> ATE (oral) 4,100 mg/kg ATE (dermal) > 2,000 mg/kg	5 - ≤ 15 weight-%
CAS No.: 97862-59-4 EC No.: 931-296-8 REACH No.: 01-2119488533-30	<b>C8-18 (geradzahlig) Alkylamidopropylbetain</b> Aquatic Chronic 3 (H412), Eye Dam. 1 (H318) ⚠ Danger <b>Specific concentration limit (SCL)</b> Eye Dam. 1; H318: $C \geq 10\%$ Eye Irrit. 2; H319: $4\% \leq C < 10\%$	0 - ≤ 2 weight-%

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Remove victim out of the danger area. Remove contaminated, saturated clothing.

#### Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact:

If skin irritation or rash occurs: Get medical advice/attention. After contact with skin, wash immediately with plenty of water and soap.

#### After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Following ingestion:

Rinse mouth. Get medical advice/attention if you feel unwell. Let 1 glass of water be drunken in little sips (dilution effect).

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### Self-protection of the first aider:

Use personal protection equipment.

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

Serious eye damage/eye irritation

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Adjust to the environment

#### Unsuitable extinguishing media:

There are no restrictions on extinguishing agents for this mixture

### 5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire hazardous combustion gases or vapors possible

#### Hazardous combustion products:

In case of fire: Gases/vapours, toxic

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Remove persons to safety. Special danger of slipping by leaking/spilling product.

##### Protective equipment:

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

#### 6.1.2. For emergency responders

##### Personal protection equipment:

Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

#### For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

#### Advices on safe handling:

Wear personal protection equipment (refer to section 8).

#### Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

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### 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

### 7.3. Specific end use(s)

#### Industrial sector specific solutions:

Washing-up liquids, irritant

#### GISCODE:

GU30

## SECTION 8: Exposure controls/personal protection

### \* 8.1. Control parameters

No data available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No data available

#### 8.2.2. Personal protection equipment

##### Eye/face protection:

Eye glasses with side protection EN 166

##### Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

##### Respiratory protection:

Respiratory protection necessary at: aerosol or mist formation Filter type: A2 P2

#### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

### \* 9.1. Information on basic physical and chemical properties

#### Appearance

**Physical state:** Liquid

**Colour:** yellow

**Odour:** characteristic

**flammability:** No data available

#### Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	≈ 5		
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	No data available		
Flash point	No data available		
Evaporation rate	No data available		
Auto-ignition temperature	No data available		
Upper/lower flammability or explosive limits	No data available		
Vapour pressure	No data available		
Vapour density	No data available		
Density	No data available		
Relative density	≈ 1	23 °C	
Bulk density	not applicable		
Water solubility	No data available		
Dynamic viscosity	No data available		

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Parameter	Value	at °C	① Method ② Remark
Kinematic viscosity	No data available		

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

Avoid high temperatures or direct sunlight.

### 10.5. Incompatible materials

No data available

### 10.6. Hazardous decomposition products

No data available

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

<b>Fettalkohol-C12/14-ethersulfat, Natriumsalz</b> CAS No.: 68891-38-3 EC No.: 500-234-8
<b>LD<sub>50</sub> oral:</b> 4,100 mg/kg (Ratte)
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Ratte)

#### Acute oral toxicity:

Based on available data, the classification criteria are not met.

#### Acute dermal toxicity:

Based on available data, the classification criteria are not met.

#### Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

#### Serious eye damage/irritation:

Causes serious eye irritation.

#### Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

#### Carcinogenicity:

Based on available data, the classification criteria are not met.

#### Reproductive toxicity:

Based on available data, the classification criteria are not met.

#### STOT-single exposure:

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure:

Based on available data, the classification criteria are not met.

#### Aspiration hazard:

Based on available data, the classification criteria are not met.

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### Additional information:

No data available

### 11.2. Information on other hazards

No data available

## SECTION 12: Ecological information

### \* 12.1. Toxicity

<b>Fettalkohol-C12/14-ethersulfat, Natriumsalz</b> CAS No.: 68891-38-3 EC No.: 500-234-8
<b>LC<sub>50</sub></b> : 7.1 mg/L 4 d (fish)
<b>LC<sub>50</sub></b> : 7.1 mg/L 4 d (fish, Danio rerio (previous name: Brachydanio rerio))
<b>LC<sub>50</sub></b> : 1.17 mg/L 4 d (crustaceans, Daphnia magna) OECD Guideline 211 (Daphnia magna Reproduction Test)
<b>EC<sub>50</sub></b> : 7.2 mg/L 2 d (Daphnia magna)
<b>EC<sub>50</sub></b> : 27.7 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus))
<b>EC<sub>50</sub></b> : 7.4 mg/L 2 d (crustaceans, Daphnia magna)
<b>NOEC</b> : 0.27 mg/L 21 d (Daphnia magna)
<b>NOEC</b> : 0.95 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus))
<b>NOEC</b> : 0.14 mg/L 28 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri))
<b>NOEC</b> : 0.27 mg/L 21 d (crustaceans, Daphnia magna) OECD Guideline 211 (Daphnia magna Reproduction Test)
<b>C8-18 (geradzahlig) Alkylamidopropylbetain</b> CAS No.: 97862-59-4 EC No.: 931-296-8
<b>LC<sub>50</sub></b> : 1.11 mg/L 4 d OECD 203
<b>EC<sub>50</sub></b> : 1.5 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (Grünalge))
<b>NOEC</b> : 0.135 mg/L (Oncorhynchus mykiss (Regenbogenforelle)) OECD 210
<b>LOEC</b> : 0.56 mg/L 21 d (Daphnia magna (Großer Wasserfloh)) OECD 211
<b>EC<sub>50</sub></b> : 6.5 mg/L 2 d (Daphnia magna (Großer Wasserfloh)) OECD 202
<b>NOEC</b> : 0.32 mg/L 21 d (Daphnia magna) OECD 211
<b>EC<sub>50</sub></b> : 1.5 mg/L 3 d (Desmodesmus subspicatus (Grünalge))
<b>LOEC</b> : 0.56 mg/L 21 d (Daphnia magna) OECD 211

### \* 12.2. Persistence and degradability

<b>C8-18 (geradzahlig) Alkylamidopropylbetain</b> CAS No.: 97862-59-4 EC No.: 931-296-8
<b>Biodegradation</b> : Yes, rapidly

### 12.3. Bioaccumulative potential

<b>Fettalkohol-C12/14-ethersulfat, Natriumsalz</b> CAS No.: 68891-38-3 EC No.: 500-234-8
<b>Log K<sub>OW</sub></b> : 0.3

### 12.4. Mobility in soil

No data available

### \* 12.5. Results of PBT and vPvB assessment

<b>Fettalkohol-C12/14-ethersulfat, Natriumsalz</b> CAS No.: 68891-38-3 EC No.: 500-234-8
<b>Results of PBT and vPvB assessment</b> : This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>C8-18 (geradzahlig) Alkylamidopropylbetain</b> CAS No.: 97862-59-4 EC No.: 931-296-8
<b>Results of PBT and vPvB assessment</b> : —

### 12.6. Endocrine disrupting properties

No data available

### 12.7. Other adverse effects

No data available

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### 13.1.1. Product/Packaging disposal

#### Waste codes/waste designations according to EWC/AVV

##### Waste code product

07 06 01 *	(07) WASTES FROM ORGANIC CHEMICAL PROCESSES (06) Wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics (01 *) aqueous washing liquids and mother liquors
20 01 29 *	(20) MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS (01) separately collected fractions (except 15 01) (29 *) Detergents containing hazardous substances

\*: Evidence for disposal must be provided.

##### Waste code packaging

##### Remark:

Plastic packaging

##### Waste treatment options

##### Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

### SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN number or ID number</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
<b>14.2. UN proper shipping name</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
<b>14.3. Transport hazard class(es)</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.4. Packing group</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.5. Environmental hazards</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.6. Special precautions for user</b>			
not relevant	not relevant	not relevant	not relevant

#### 14.7. Maritime transport in bulk according to IMO instruments

No data available

### SECTION 15: Regulatory information

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

##### 15.1.1. EU legislation

##### Authorisations:

Ingredients according to the Detergents Regulation 648/2004/EG:

anionic surfactants: 5% and above but less than 15%

amphoteric surfactants less than 5%

sodium benzoate

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### 15.1.2. National regulations

No data available

### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### \* 16.1. Indication of changes

2.2.	Label elements
3.2.	Mixtures
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
12.1.	Toxicity
12.2.	Persistence and degradability
12.5.	Results of PBT and vPvB assessment
15.3.	Additional information
16.1.	Indication of changes
16.4.	Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

### 16.2. Abbreviations and acronyms

AC	Article Category
ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC <sub>50</sub>	Effective Concentration 50%
EN	European Standard
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
LC <sub>50</sub>	Lethal (fatal) Concentration 50%
LD <sub>50</sub>	Lethal (fatal) Dose 50%
NFPA	National Fire Protection Association
NOEC	No Observed Effect Concentration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SCL	Specific concentration limit
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

### 16.3. Key literature references and sources for data

Substance name	Type	source of supply
Fettalkohol-C12/14-ethersulfat, Natriumsalz CAS No.: 68891-38-3 EC No.: 500-234-8	LC <sub>50</sub> ; EC <sub>50</sub> ; NOEC	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>

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### \* 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	

### 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

### 16.6. Training advice

No data available

### 16.7. Additional information

The information is based on our current level of knowledge and is used to describe the product with regard to the safety precautions to be taken. They do not represent a guarantee of the properties of the product described.

It is the responsibility of the recipient of our product to observe existing laws and regulations.

\* Data changed compared with the previous version.