

SAFETY DATA SHEET



Trade name: Laureth 2

Print Date: 6. January 2021

Version: 1.1, revision date: 02.01.2021

Replaced version: 1.0 / 04.06.2019

Region: EN

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

1.1. Product identifier

Product name / Trade name

Laureth 2

Substance name

Alcohol, C12-C14, ethoxylated (<2,5 EO)

REACH Registration Number

01-2119487984-16

Identification Number

CAS-Number

68439-50-9

NLP Number

500-213-3

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

Recommended use

Emulsifier
Emulsifying material
Cleaning material/ Detergent
Detergents

Uses advised against

No further relevant information available.

1.3. Details of the supplier of the safety data sheet

Company

SysKem Chemie GmbH
Brucknerweg 26
D-42289 Wuppertal

Telephone

+49 (0) 202/30999510

Telefax

+49 (0) 202/87088403

E-mail address

info@syskem.de

Prepared by / E-mail address of person responsible for the SDS

info@syskem.de

1.4. Emergency telephone number

Vergiftungs-Informationen-Zentrale Freiburg, Tel. +49 761 19240.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aquatic Acute 1

H400 Very toxic to aquatic life.

Aquatic Chronic 3

H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms (CLP)





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Signal word (CLP)

Warning

Hazard statements (CLP)

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP)

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

Results of PBT and vPvB assessment

The substance is not classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterisation

Substances Fatty alcohol, C12-14, ethoxylated

CAS No.

68439-50-9

Description

Alcohol, C12-C14, ethoxylated (<2,5 EO)

Identification number(s)

NLP Number: 500-213-3

SVHC

The product does not contain any substances of very high concern (SVHC).

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice:

Take affected persons out of danger area and lay down.

If inhaled:

Supply fresh air; consult doctor in case of complaints.

In case of skin contact:

Wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

In case of eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

If swallowed:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

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

No further relevant information available.

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

No further relevant information available.



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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Use fire extinguishing methods suitable to surrounding conditions.

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing media

Water with full jet

5.2. Special hazards arising from the substance or mixture

No further relevant information available.

5.3. Advice for firefighters

No special measures required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Product forms slippery surface when combined with water.

6.2. Environmental precautions

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4. Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No special precautions are necessary if used correctly.

Information about fire - and explosion protection:

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Suitable material for receptacles and pipes: steel or stainless steel.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

None.



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Storage class:

10

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Not required.

DNELs

Oral	DNEL	25 mg/kg bw/d (general population)
Dermal	DNEL	1,250 mg/kg bw/d (general population)
		2,080 mg/kg bw/d (worker)
Inhalative	DNEL	87 mg/m ³ (general population)
		294 mg/m ³ (worker)

PNECs

PNEC – aquatic	43.7 µg/l (freshwater)
	43.7 µg/l (marinewater)
PNEC – Sediment	31,000 µg/kg dw (freshwater)
	31,000 µg/kg dw (marinewater)
PNEC – soil	1 mg/kg dw (-)
PNEC - Sewage treatment plant	10,000,000 µg/l (-)

8.2. Exposure controls**Personal protective equipment:**

Wearing gloves and goggles when handling continuous

General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Respiratory protection:

Not required.

Protection of hands:

Protective gloves

Material of gloves:

Nitrile rubber

Penetration time of glove material

Glove material: Nitrile rubber

Layer thickness: 0.40 mm

Penetration time: > 480 min (Level 6)

Glove material: Nitrile rubber

Layer thickness: 0.10 mm

Penetration time: > = 10 min and <30 min (Level 1)

For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Nitrile rubber (i.e. KCL 730-Nitrile glove Camatril®)

As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber (i.e. KCL 740 nitrile disposable gloves Dermatril®)



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Eye protection:

Tightly sealed goggles

Body protection:

Protective work clothing

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

General Information

Appearance:

Form:	Liquid
Colour:	Clear
Odour:	Odourless
Odour threshold:	Not determined.

PH-value: 5 – 7

Change in condition

Meltig point /Melting range:	< 10 °C
Initial boiling point and boiling range:	> 267 °C
Setting temperature / range:	5 °C
Flash point:	149 – 151 °C
Flammability (solid, gas):	Not applicable.
Ignition temperature:	251 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure at 38 °C:	0.014 hPa
Density at 20 °C:	0.9 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with water at 25 °C:	7 - 63 m g/l
Partition coefficient n-octanol/water (log P):	< 7
Viscosity:	
Dynamic at 20 °C:	20 °C: 23.5 - 28.6 mPas
Kinematic:	Not determined.
Surface tension	~ 30 mN/m

9.2. Other information

No further relevant information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No further relevant information available.

10.2. Chemical stability

No decomposition if used according to specifications.

10.3. Possibility of hazardous reactions

Reacts with acids, alkalis and oxidising agents.



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10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

peroxide compounds, hydrogen peroxide, perchlorates
halogenes
Isocyanates
Nitric acid / conc. sulfuric acid

10.6. Hazardous decomposition products

Irritant gases / vapours
acid smoke

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

Oral	LD50	> 2,000 mg/kg (rat) (OECD 401)
Dermal	LD50	> 2,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50	read across Alcohols C10-C16, ethoxylated 1.6 mg/l (rat) (OECD 403) read across Alcohols, C10-C16, ethoxylated

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

Repeated dose toxicity

Oral	NOAEL	500 mg/kg (rat) (OECD 408) read across
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Skin corrosion/irritation

No irritant effect.

Serious eye damage/eye irritation

No irritant effect.

Respiratory or skin sensitisation

No sensitizing effects known.

Germ cell mutagenicity

Genotoxicity – AMES-Test

Genotoxicity - Mammalian Cell Gene Mutation Assay

Genotoxicity - Micronucleus assay

Genotoxicity - Chromosome aberration assay

Genotoxicity - DNA Damage and repair assay

(Salmonella Typhimurium) (OECD 471)
negative (read across)
(Chinese Hamster Ovary Cells) (OECD 476)
negative (read across)
(mouse) (OECD 474)
negative (read across)
(Chinese Hamster Ovary Cells) (OECD 473)
negative (read across)
(rat) (OECD 475)
negative (read across)
(Hepatocytes) (OECD 482)
negative (read across)

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

Carcinogenicity

Not carcinogenic



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Reproductive toxicity

Oral Developmental toxicity - NOAEL

> 250 mg/kg (rat) (OECD 416)

read across

Reproductive toxicity - NOAEL

> 250 mg/kg (rat) (OECD 416)

read across

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 toxicity

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

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity**

EC50

0.41 mg/l (alga) (OECD 201)

0.53 mg/l (daphnia) (OECD 202)

LC50

1.2 mg/l (fish) (OECD 203)

Long term toxicity - NOEC

0.31 mg/l (alga) (OECD 201)

read across

0.77 mg/l (daphnia)

0.16 mg/l (fish)

12.2 Persistence and degradability

Easily biodegradable

Method OECD 301 F

Analysing method O 2 -consumption

Degree of elimination: 95 %

Classification:

Readily biodegradable

12.3 Bioaccumulative potential

BCF 237 L/kg (fish)

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

The substance is not classified as PBT or vPvB.

12.6 Other adverse effects

No further relevant information available.

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Additional ecological information:**Ecotoxicological effects:**

Terrestrial toxicity - LC50 > 1,000 mg/kg dw (earth worm) (OECD 207)
read across Alcohol, tallow, ethoxylated
Terrestrial toxicity - NOEC 100 mg/kg dw (plants) (OECD 208)

Remark:

Very toxic for fish
Very toxic for water fleas.
Very toxic for algae

General notes:

Danger to drinking water if even small quantities leak into the ground.
Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Very toxic for aquatic organisms

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:**Recommendation: +**

Disposal must be made according to official regulations.

SECTION 14: Transport information**14.1. UN-Number**

ADR, IMDG, IATA 3082

14.2. UN proper shipping name

ADR 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (Alcohol, C12-C14, ethoxylated (<2,5 EO))
IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (Alcohol, C12-C14, ethoxylated (<2,5 EO)),
MARINE POLLUTANT
IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (Alcohol, C12-C14, ethoxylated (<2,5 EO))

14.3. Transport hazard class(es)

ADR, IMDG, IATA

Class 9 Miscellaneous dangerous substances and articles.

**14.4. Packing group**

ADR, IMDG, IATA III



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14.5. Environmental hazards:

Marine pollutant:	Yes (P)
	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)

14.6. Special precautions for user

Warning: Miscellaneous dangerous substances and articles.
Danger code (Kemler): 90
Stowage Category A

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

Transport/Additional information:**ADR**

Limited quantities (LQ)	5 I
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category	3

IMDG

Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation":

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALCOHOL, C12-C14, ETHOXYLATED (<2,5 EO)), 9, III

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Toxic Substances Control Act (TSCA): Substance is listed.

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Substance is listed.

Inventory of Existing Chemical Substances in China (IECSC): Substance is listed.

Australian Inventory of Chemical Substances (AICS): Substance is listed.

Existing and New Chemical Substances (ENCS, Japan): 7-97

Korean Existing Chemical Inventory (KECI): KE-13387

Canadian Domestic Substances List (DSL): Substance is listed.

Existing Chemical Substances Inventory (ECSI, Taiwan): Substance is listed.

New Zealand Inventory of Chemicals (NZIoC): Substance is listed.

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

Directive 2012/18/EU

Named dangerous substances - ANNEX I Substance is not listed.

Seveso category E1 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

REGULATION (EC) No 1907/2006 ANNEX XVII

Conditions of restriction: 3



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National regulations

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

The product does not contain any substances of very high concern (SVHC).

15.2 Chemical safety assessment:

A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS:

Product Safety

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

P: Marine Pollutant

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect concentration

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

NOEL: No observed effect level

NOEC: No observed effect concentration

LOEC: Lowest observed effect concentration

BCF: Bio concentration factor

EC50: Effect concentration, 50 percent

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3