

LAURYL ALCOHOL ETHOXYLATE (7 moles)

1. PRODUCT AND COMPANY IDENTIFICATION

1.1. Identification

Substance name : Lauryl alcohol ethoxylate 7 moles

CAS # : 68439-50-9

Chemical family : Nonionic Surfactants

Synonyms : Dodecyl poly(oxyethylene)ether; Ethoxylated lauryl alcohol;

Lauromacrogol; Lauryl alcohol ethoxylated; Lauryl poly(oxyethylene) ether

Revision Date: 10.12.2022

1.2. Recommended use and restrictions on use

Applications of the substance/mixture

Detergents

· Industrial & Institutional cleaning

• Industrial use

Production of other chemicals

1.3. Supplier

: Novichem Co.

Address

30 Magnolia Str, Qaem Maqam Farahani Ave.

Tehran 15886-13941 IRAN

1.4. Emergency telephone number

Emergency number : +98-21-88329799 (Product information)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Short-term (acute) aquatic hazard Category 1 Very toxic to aquatic life.

Long-term (chronic) aquatic hazard Category 3 Harmful to aquatic life with long lasting effects.

Eye irritation Category 2 Causes serious eye irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms





Signal word Warning

Hazard statements

H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.

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

P391 Collect spillage.

P501 Dispose of contents/ container to an approved waste disposal plant.



2.3 Other hazards

Danger of slipping after spill or leakage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. **Substances**

Component	Product identifier	%
Lauryl-Myristryl alcohol Ethoxylate	CAS-No. 68439-50-9	99.9

4. FIRSTAID MEASURES

4.1 Description of first aid measures

General advice If you feel unwell, seek medical advice (show the label where possible). Take off all

contaminated clothing immediately.

If inhaled Remove from exposure, lie down. If breathing is irregular or stopped, administer

artificial respiration. Monitor breathing, give oxygen if necessary. Consult a

physician.

In case of skin contact Wash off immediately with plenty of water. Consult a physician if necessary.

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

If swallowed Consult a physician. Do not induce vomiting without medical advice. Never give

anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and

effects, both acute and delayed

Symptoms: No information available.

Risks: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Indication of any immediate medical attention and special

treatment needed

Treatment: No information available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Water spray, Dry powder, Foam, Carbon dioxide (CO2)

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

Dangerous gases or fumes may occur in case of fire.

5.3 Advice for firefighters

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information Standard procedure for chemical fires.



6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions Avoid subsoil penetration.

Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal

binder, sawdust). The material taken up must be disposed of in accordance with

regulations.

6.4 Reference to other sections

For personal protection see section 8.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling Wear personal protective equipment.

Avoid contact with skin and eyes.

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Do not spray on a naked flame or any incandescent material.

B: Fires involving liquids or liquid containing substances. Also includes substances which become liquid at elevated temperatures.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas

and containers

Fire-fighting class

Keep tightly closed in a dry and cool place.

Storage class (TRGS 510) 10: Combustible liquids not in Storage Class 3

Other data Stable at normal ambient temperature and pressure.

7.3 Specific end use(s)

Specific use(s) This information is not available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

National occupational exposure limits

No data available

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

DERIVED NO EFFECT LEVEL (DNEL)

Substance name: Alcohols, C12-14 (even numbered), ethoxylated (CAS: 68439-50-9)

No data available

PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: Alcohols, C12-14 (even numbered), ethoxylated (CAS: 68439-50-9)

No data available



8.2 Exposure controls

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection No personal respiratory protective equipment normally required. In inadequately

ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a type A filter or appropriate

combined filter (e.g. where aerosols are in use, or smoke and mist occur, A-P2 or

ABEK-P2), in compliance with EN 141.

Hand protection The choice of an appropriate glove does not only depend on its material but also

on other quality features and is different from one producer to the other., Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time., Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g.

temperature).

gloves suitable for permanent contact:

Material: butyl-rubber

Break through time: >= 480 min Layer thickness: >= 0,7 mm

gloves suitable for splash protection:

Material: Nitrile rubber/nitrile latex Break through time: >= 30 min Layer thickness: >= 0,4 mm

Eye protection Tightly fitting safety goggles, Safety glasses with side-shields

Skin and body protection Wear suitable protective equipment.

Hygiene measures Avoid contact with the skin and the eyes. Handle in accordance with good

industrial hygiene and safety practice. Keep away from food, drink and animal

feedingstuffs. When using do not eat, drink or smoke.

Protective measures Avoid contact with the skin and the eyes. Wear suitable gloves and eye/face

protection.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice Avoid subsoil penetration.

Do not flush into surface water or sanitary sewer system.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state liquid; 20 °C;

Form hazy viscous liquid
Colour 50 Max. pt-co

Odour mild

Odour Threshold No valid method available

pH 5 - 7; 20 g/l; 20 °C

HLB, calculated 12.1 - 12.5

Boiling point/boiling range Not applicable Cloud point (10% in 25% BDG) 52 - 60 °C



Viscosity at 50 °C 20 ± 3 C.st

Flammability (solid, gas) not applicable (liquid)

Lower explosion limitNo data availableUpper explosion limitNo data availableAverage molecular weight 0.98 ± 0.02 g/molHydroxyl value322 - 334 mgKOH/gDensity0.85 - 0.95 gr/cm³Water content0.5 wt% Max.

Partition coefficient: Not relevant / not applicable

n-octanol/water Justification: surface-active substance

Auto-ignition temperature not auto-flammable

Viscosity, dynamic No data available

Explosive properties not expected based on structure and functional groups

Oxidizing properties not expected based on structure and functional groups

10. STABILITY AND REACTIVITY

10.1 Reactivity

Note Stable at normal ambient temperature and pressure.

10.2 Chemical stability

Note No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions None known.

10.4 Conditions to avoid

Conditions to avoid Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.

10.5 Incompatible materials to avoid

Materials to avoid Strong acids and oxidizing agents;

10.6 Hazardous decomposition products

Hazardous decomposition products

No decomposition if stored and applied as directed.

Thermal decomposition

Hazardous decomposition products formed under fire conditions.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity Alcohols, C12-14, ethoxylated (>=2.5 EO):

LD50 Rat: > 2.000 mg/kg own test results/literature values

Category approach

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



Acute inhalation toxicity Alcohols, C12-14, ethoxylated (>=2.5 EO):

No data available

Acute dermal toxicity Alcohols, C12-14, ethoxylated (>=2.5 EO):

LD50 Rabbit: > 2.000 mg/kg;

Category approach (literature value)

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

Skin corrosion/irritation

Skin irritation Alcohols, C12-14, ethoxylated (>=2.5 EO):

Rabbit: not irritating

own test results/literature values

Category approach

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

Serious eye damage/eye irritation

Eye irritation Alcohols, C12-14, ethoxylated (>=2.5 EO):

Rabbit: Irritation to eyes, reversing within 7 days

Category approach

own test results/literature values Causes serious eye irritation.

Respiratory or skin sensitisation

Sensitisation Alcohols, C12-14, ethoxylated (>=2.5 EO):

Maximisation Test Guinea pig: not sensitizing

Category approach (literature value)

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

Germ cell mutagenicity

Genotoxicity in vitro Alcohols, C12-14, ethoxylated (>=2.5 EO):

In vitro tests did not show mutagenic effects

Category approach

own test results/literature values

Genotoxicity in vivo Alcohols, C12-14, ethoxylated (>=2.5 EO):

In vivo tests did not show mutagenic effects

Category approach (literature value)

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish Alcohols, C12-14, ethoxylated (>=2.5 EO):

LC50 (96 h) Brachydanio rerio (zebrafish): > 0,1 - 1 mg/l; semi-static test

own test results/literature values

Category approach

Toxicity to daphnia and other Alcohols, C12-14, ethoxylated (>=2.5 EO):

EC50 (48 h) Daphnia magna (Water flea): > 0,1 - 1 mg/l; static test; own test

aquatic invertebrates results/literature values

Category approach

Toxicity to aquatic plants Alcohols, C12-14, ethoxylated (>=2.5 EO):

EC50 (72 h) Desmodesmus subspicatus (green algae): > 0,1 - 1 mg/l; static test;

own test results/literature values; Category approach

Alcohols, C12-14, ethoxylated (>=2.5 EO):

EC10 (72 h) Desmodesmus subspicatus (green algae): 0,1 - 1 mg/l; static test;

own test results/literature values; Category approach

Toxicity to bacteria Alcohols, C12-14, ethoxylated (>=2.5 EO):

EC50 activated sludge: 140 mg/l; Respiration inhibition

Category approach (literature value)



Toxicity to terrestrial flora Alcohols, C12-14, ethoxylated (>=2.5 EO):

emergence, growth; NOEC: 10 mg/kg; Lepidium sativum (cress); OECD Test

Guideline 208

own test results/literature values

Category approach

Toxicity for other terrestrial non-mammalian fauna

Alcohols, C12-14, ethoxylated (>=2.5 EO):

No data available

12.2 Persistence and degradability

Biodegradability Alcohols, C12-14, ethoxylated (>=2.5 EO):

Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B

own test results/literature values

Category approach

12.3 Bioaccumulative potential

Bioaccumulation Alcohols, C12-14, ethoxylated (>=2.5 EO):

Bioaccumulation is unlikely.

(literature value)

12.4 Mobility in soil

Mobility Alcohols, C12-14, ethoxylated (>=2.5 EO):

Moderately mobile in soils

12.5 Results of PBT and vPvB assessment

Results of PBT assessment This substance/mixture contains no components considered to be either persistent,

bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative

(vPvB) at levels of 0.1% or higher.

Results of PBT assessment Alcohols, C12-14, ethoxylated (>=2.5 EO):

This substance is not considered to be persistent, bioaccumulating and toxic

(PBT).

This substance is not considered to be very persistent and very bioaccumulating

(vPvB).

Category approach

12.6 Other adverse effects

General advice Alcohols, C12-14, ethoxylated (>=2.5 EO):

Very toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product Can be incinerated, when in compliance with local regulations.

waste code of the European

Union: EWC

A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose. The waste code must be determined in

agreement with the regional waste disposal authority or company.

14.1 UN number

ADR 3082
RID 3082
ADN 3082
IMDG 3082
ICAO/IATA 3082

14. TRANSPORT INFORMATION

14.2 Proper shipping name

ADR ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty alcohol

polyethoxylated)

RID ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty alcohol

polyethoxylated)

ADN ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty alcohol

polyethoxylated)

IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty alcohol

polyethoxylated)

ICAO/IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty alcohol

polyethoxylated)

14.3 Transport hazard class

ADR 9
RID 9
ADN 9
IMDG 9
ICAO/IATA 9

14.4 Packing group

ADR III
RID III
ADN III
IMDG III
ICAO/IATA III

14.5 Environmental hazards

ADR Environmentally hazardous yes
RID Environmentally hazardous yes
ADN Environmentally hazardous yes
IMDG Marine pollutant yes
ICAO/IATA Environmentally hazardous yes

14.6 Special precautions for user

ADR Hazard Identification Number 90

Labels 9

Tunnel restriction code (-)

IMDG Labels 9

EmS Number 1 F-A

EmS Number 2 S-F

ICAO/IATA Labels 9MI

15. REGULATORY INFORMATION

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

NOTIFICATION STATUS

Switzerland. Consolidated Inventory	CH INV	listed (product or constituents are listed)
US. Toxic Substances Control Act	TSCA	listed (product or constituents are listed)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	listed (product or constituents are listed)
Japan. Kashin-Hou Law List	ENCS (JP)	listed (product or constituents are listed)
Japan. Industrial Safety & Health Law (ISHL) List	ISHL (JP)	listed (product or constituents are listed)
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances (IECSC)	INV (CN)	listed (product or constituents are listed)

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

15.2 Chemical safety assessment

Alcohols, C12-14 (even numbered), ethoxylated (CAS: 68439-50-9)

A Chemical Safety Assessment is not required for this substance (exempted from obligation to register).

16. OTHER INFORMATION

Information contained herein is provided in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.