



Material safety data sheet

According to EU Regulation 1907/2006 in the current version

LIQUA EMULSIFIER

1. Identification of the substance/mixture and company

Trade name: Liqua emulsifier
Obtained by conversion of polyglycerol with fatty acids.
I.N.C.I. Polyglyceryl-6 Stearate (and) Polyglyceryl-6 Behenate
CAS No. : 9009-32-9/ 64366-79-6
EINESCS No. : -
REACH pre-registration No. : /
Utilization: Raw material for cosmetic or professional use
Supplier company identification: **Elemental SRL**, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania
Tel/Fax: +40259-436.755, www.elemental.eu
Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București.
International emergency number: +49 180 2273-112

2. Hazards Identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

2.2 Label elements

Not applicable

2.3 Other hazards

None known

3. Declaration of ingredients

The product contains the following ingredients:

General information: Contains no hazardous ingredients according to GHS

Substance	C.A.S.	EINECS	Percent %
Polyglyceryl-6 Stearate	9009-32-9	Polymer	85 - 98%
Polyglyceryl-6 Behenate	64366-79-6	Polymer	2 – 15%

4. First aid measures

4.1 Description of first aid measures

In case of contact with skin: In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.

In case of contact with eyes: In case of contact with eyes rinse thoroughly with plenty of water. If symptoms persist, seek medical advice.

In case of inhalation: Ensure supply of fresh air. In the event of symptoms seek medical advice.



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In case of ingestion: Do not induce vomiting. Thoroughly clean the mouth with water. In the event of symptoms, seek medical advice.

4.2 Main symptoms and effects, both acute and delayed

Up to now no symptoms are known.

4.3 Indication to consult a physician immediately or any special treatments

Hazards: No data available.

Treatment: Treat symptomatically.

5. Fire fighting measures

5.1 Means of extinction

Suitable extinguishing media: foam, water spray jet

Unsuitable extinguishing media: full water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released: carbon dioxide, carbon monoxide

5.3 Recommendations for fire-fighters

Keep away from sources of ignition - no smoking. Take action to prevent static discharges.

Special protective equipment for fire-fighters: Use self-contained breathing apparatus and wear protective suit.

6. Accidental release measures

6.1 Personal precautions, protective devices and emergency procedures

Use personal protective equipment.

6.2 Environmental precautions

Do not allow product to enter drains or waterways. Do not discharge into the subsoil/soil.

6.3 Methods and materials for containment and remediation

Take up with absorbent material (eg: sand, kieselguhr, universal binder). Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

For further information on exposure monitoring and disposal see sections 8 and 13.

7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Provide good ventilation of working area (local exhaust ventilation if necessary).

7.2 Conditions for safe storage, including any incompatibilities



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

7.3 Specific end uses

None

8. Exposure controls / personal protection

8.1 Control parameters

None of the components have assigned exposure limits.

8.2 Exposure controls



Hand protection: Protect hands with category I work gloves (ref. Directive 89/686 / EEC and standard EN 374) such as latex, PVC or equivalent.

Skin protection: Wear work clothes with long sleeves and safety footwear for professional use of category I (ref. Directive 89/686 / EEC and standard EN 344). Wash with soap and water after removing protective clothing.

Respiratory protection: In case of formation of vapors/aerosols: Respiratory protection mask with combination filter A-P2.

Eye protection: it is recommended to wear airtight protective goggles (ref. Standard EN 166).

Hygiene measures: Remove soiled or soaked clothing immediately. Do not eat, drink or smoke when working. Wash hands before breaks and immediately after handling the product.

Environmental Controls: The environmental regulations on the control and monitoring of environmental exposures are to be observed.

9. Physical and chemical properties

9.1 Information on physical and chemical properties

Physical state: solid

Form: pellets

Color: yellow to brown

Odor: characteristic

Odor threshold: not determined

pH: 9.3 (50 g/l, 25.8 °C) Water.

Melting Point: not measured

Boiling Point: not measured

Flash Point: 214 °C (DIN EN ISO 2719)

Evaporation Rate: not determined

Flammability (solid, gas): The substance is not a flammable solid in the sense of the classification criteria as laid down in Regulation (EC) No.1272/2008 (CLP Regulation).

Flammability Limit - Upper (%): not measured

Flammability Limit - Lower (%): not measured

Vapor pressure: not measured

Vapor density (air=1): not measured

Density: not determined

Relative density: No data available



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Solubility in Water: not measured
Solubility (other): not measured
Partition coefficient (n-octanol/water): not measured
Self-ignition temperature: not determined
Decomposition temperature: not measured
Kinematic viscosity: No data available.
Dynamic viscosity: not determined

9.2 Other information

Explosive properties: not determined
Oxidizing properties: not determined
Minimum ignition temperature: 415 °C (DIN 51794)
Metal Corrosion: not measured

10. Stability and reactivity

10.1 Responsiveness

The product is stable under normal conditions.

10.2 Chemical stability

The product is stable under normal conditions.

10.3 Possibility of dangerous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Unknown

10.5 Incompatible materials

Unknown

10.6 Hazardous decomposition products

None with proper storage and handling.

11. Toxicological information

Information on likely routes of exposure

Inhalation: If handled correctly, not a relevant route of exposure. Information on effects is given below.

Skin Contact: Relevant route of exposure. Information on effects is given below.

Eye contact: Relevant route of exposure. Information on effects is given below.

Ingestion: If handled correctly, not a relevant route of exposure. Information on effects is given below.

11.1 Information on toxicological effects

Acute toxicity information:

- Oral (mg / kg): LD 50 (Rat): 5,000 mg/kg (16 CFR 1500.3) (analogy)

- Inhalation (mg / kg): No data available

- Cutaneous (mg / kg): No data available

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation: slight irritant effect - does not require labeling



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Product: 16 CFR 1500.41 (Rabbit): slight irritant effect - does not require labeling (analogy)

Serious Eye Damage/Eye

Irritation: slight irritant effect - does not require labeling

Product: (Rabbit): slight irritant effect - does not require labeling (analogy)

Respiratory or Skin

Sensitization: Did not cause sensitization on laboratory animals.

Product: OECD 406 (according to Magnusson and Kligman) non-sensitizing (analogy)

Germ Cell Mutagenicity

- In vitro: No data available

- In vivo: No data available

- Carcinogenicity: No data available

- Reproductive toxicity: No data available

- Specific target organ toxicity – Single exposure: No data available

- Specific target organ toxicity – Repeated exposure: No data available

Aspiration hazard: Not classified

Other adverse effects: Proper use provided no adverse health effects have been observed or have been come to our knowledge.

12. Ecological information

12.1 Toxicity

Acute toxicity

Fish: No data available.

Aquatic Invertebrates: EL50 (Daphnia magna, 48 h): > 100 mg/l (OECD 202) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Toxicity to Aquatic Plants: No data available

Toxicity to microorganisms: No data available

Chronic Toxicity

Fish: No data available.

Aquatic Invertebrates: No data available.

Aquatic Plants: No data available.

12.2 Persistence and degradability

Biodegradation: aerobic (28 d, OECD 301 F): 64 % Readily biodegradable (analogy)

BOD/COD Ratio: No data available.

12.3 Bioaccumulation potential

No data available.

12.4 Ground mobility

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects



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Do not allow to enter soil, waterways or waste water canal. The product is classified as slightly hazardous to waters (according to the German Regulation on the Classification of Substances Hazardous to Waters (WwSV)).

13. Disposal considerations

13.1 Waste treatment methods

In accordance with local authority regulations, take to special waste incineration plant.

14. Transport information

14.1 UN number

Not regulated as a dangerous good.

14.2 UN shipping name

Not regulated as a dangerous good.

14.3 Class of danger for transport

Not regulated as a dangerous good.

14.4 Packing group

Not regulated as a dangerous good.

14.5 Environmental hazards

Not regulated as a dangerous good.

14.6 Special precautions for users

Not regulated as a dangerous good.

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

Not applicable

15. Regulatory information

15.1 Regulations and legislation on health, safety and environment specific to the substance or mixture
EU Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: Not applicable

15.2 Chemical safety assessment.

No chemical safety assessment was carried out for this product.

16. Additional information

16.1 Abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

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

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.



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IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

LTE: Long-term exposure.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STE: Short-term exposure.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.