

Material safety data sheet

According to EU Regulation 1907/2006 in the current version

EMULSIFIER GSC

1. Identification of the substance/mixture and company

Trade name: Emulsifier GSC
I.N.C.I. Glyceryl Stearate Citrate
CAS No. : 55840-13-6 / 86418-55-5
EC No. : 259-855-5
REACH pre-registration No. : 01-2119971751-32
Utilization: Raw material for cosmetics.
Supplier company identification: Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania
Tel/Fax: +40259-436.755, www.ellemental.com
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 under current legislation.

2.2 Label elements
Not classified

2.3 Other hazards:
Not known

3. Declaration of ingredients

3.1. Substances
No hazardous components

4. First aid measures

4.1 Description of first aid measures

Aspiration: Provide fresh air.
Skin Contact: In case of skin contact wash with soap and water.
Eye contact: In case of contact with eyes rinse thoroughly with water.
Ingestion: If pain persists, seek medical advice

4.2 Main symptoms and effects, both acute and delayed
No information to date on acute and/or delayed onset symptoms and effects after exposure

4.3 Indication to consult a physician immediately or any special treatments:
Hazards: No data available.
Treatment: Treat symptomatically.

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5. Fire fighting measures

5.1 Means of extinction

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), water jet in accordance with the Regulation on fire protection systems.

5.2 Special hazards arising from the substance or mixture

In case of fire they can be released: Carbon dioxide, carbon monoxide.

5.3 Recommendations for fire-fighters:

There are no specific precautions.

Special protective equipment for firefighters:

Do not inhale explosion and combustion gases. Respiratory protective mask shall be worn independently of recirculating air, and appropriate protective suit shall be worn.

6. Accidental release measures

6.1 Personal precautions, protective devices and emergency procedures

Use personal protective equipment.

6.2 Environmental precautions

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and materials for containment and remediation

It is recommended:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

6.4 Reference to other sections

See sections 8 and 13.

7. Handling and storage

7.1 Precautions for safe handling

No data available. In case of proper use, no special measures are required. The production of dust will be avoided.

7.2 Conditions for safe storage, including any incompatibilities

No data available.

7.3 Specific end uses

There are no additional recommendations.

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8. Exposure controls / personal protection

8.1 Control parameters

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

None of the components have assigned exposure limits

DNEL (Workers):Non-applicable

DNEL (General population):Non-applicable

PNEC:Non-applicable

8.2 Exposure controls

General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protective Equipment in accordance with Directive 89/686/EC. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

Respiratory protection

When handling large quantities, a dust mask should be worn.

Specific protection for the hands:

Protective gloves against minor risks.

Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2003+ A1:2009 and EN ISO 374-1:2016. As the product is a mixture of several substances, the resistance of the glove material can not be predicted in advance with total reliability and has therefore to be checked prior to the application



Ocular and facial protection:

Panoramic glasses against splash/projections.

EN 166:2001 EN ISO 4007:2018. Clean daily and disinfect periodically according to the manufacturer's instructions.

Use if there is a risk of splashing.



Body protection:

Not necessary

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

9. Physical and chemical properties

9.1 Information on physical and chemical properties

Appearance:

Physical state at 20 °C: Solid

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Appearance: Solid
Colour: Ivory
Odour: Oily
Odour threshold: Non-applicable

Volatility:

Boiling point at atmospheric pressure: > 100 °C
Vapour pressure at 20 °C: Non-applicable
Vapour pressure at 50 °C: Non-applicable
Evaporation rate at 20 °C: Non-applicable

Product description:

Density at 20 °C: 1,032 g/cm³ (22 °C) (OECD 109)
Relative density at 20 °C: Non-applicable
Dynamic viscosity at 20 °C: Non-applicable
Kinematic viscosity at 20 °C: Non-applicable
Kinematic viscosity at 40 °C: Non-applicable
Concentration: Non-applicable
pH: 4,5 - 6,8 (50 g/l, 20 °C) water
Vapour density at 20 °C: Non-applicable
Partition coefficient n-octanol/water 20 °C: Non-applicable
Solubility in water at 20 °C: Non-applicable
Solubility properties: Non-applicable
Decomposition temperature: nd
Melting point/freezing point: 58 °C (OECD 102)
Explosive properties: Non-applicable
Oxidising properties: Non-applicable

Flammability:

Flash Point: Non-applicable
Flammability (solid, gas): Non-applicable
Autoignition temperature: Non-applicable
Lower flammability limit: Non-applicable
Upper flammability limit: Non-applicable

9.2 Other information

Surface tension at 20 °C: Non-applicable
Refraction index: Non-applicable
Explosive:
Lower explosive limit: Non-applicable
Upper explosive limit: Non-applicable

10. Stability and reactivity

10.1 Responsiveness

No hazardous reactions are expected because the product is stable under recommended storage conditions.

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10.2 Chemical stability

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of dangerous reactions

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

None in case of proper handling and storage

11. Toxicological information

Information on likely routes of exposure

Inspiration:

With proper handling, there is no relevant route of exposure. Information on related effects is below.

Skin Contact:

Relevant route of exposure. Information on related effects is below.

Eye contact:

Relevant route of exposure. Information on related effects is below.

Ingestion:

With proper handling, there is no relevant route of exposure. Information on related effects is below.

11.1 Information on toxicological effects

Acute toxicity

Ingestion

Product: LD 50 (Rat): > 2,000 mg/kg (OECD Test Guideline, 401, Yes)

Skin contact

Product: LD 50 (Rat) > 2,000 mg/kg (OECD Test Guideline, 402, Yes)

Aspiration

Product: No data available

Repeated dose toxicity

Product: NOAEL (No adverse effect level observed) (Rat, Oral, with food): 5,000 mg/kg (OECD 408) NOAEL (No adverse effect level observed) (Mice, Oral, with food): 15,000 mg/kg (OECD 408)

Skin Corrosion/Irritation: Non-irritant

Product: OECD 404 (Rabbit, 4 h): Non-irritant

Causes Severe Eye Damage/Irritation: Not Irritating

Product: OECD 405 (Rabbit): Not Irritating

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Skin or Respiratory Sensitivity: No sensitizing effect on laboratory animals.

Product: OECD 406 (according to Magnusson and Kligman) (Cobai) Does not sensitize.

Germ Cell Mutagenicity

In vitro

Product: Gene mutation (OECD 476): Negative

Chromosomal aberration (OECD 473): Negative

Bacterial reverse mutation (OECD 471): Negative

In vivo

Product: Chromosomal aberration (OECD 474) Oral, with food (Rat): Negative

Carcinogenicity

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available

Aspiration Hazard

Product: Not classified

Other Adverse Effects:

No health effects have been reported to date when used as intended

12. Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: LL50 (zebrafish, 96 h): > 100 mg/l (OECD 203)

Aquatic invertebrates

Product: EL50 (Daphnia magna, 48 h): > 100 mg/l (OECD 202)

Toxicity to aquatic plants

Product: No data available.

Toxicity to microorganisms

Product: NOEC (Activated sludge (trade), 3 h): 1,000 mg/l (OECD 209).

Chronic toxicity

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Fish

Product: No data available.

Aquatic invertebrates

Product: No data available.

Toxicity to aquatic plants

Product: No data available.

12.2 Persistence and degradability

aerobic (28 d, OECD 301 F): 87 % readily biodegradable

12.3 Bioaccumulation potential

No data available

12.4 Ground mobility

No data available

12.5 Results of PBT and vPvB assessment

According to the criteria of the REACH Regulation it is not a PBT, vPvB substance.

12.6 Other adverse effects

The product is classified as slightly water endangering (according to AwSV - Ordinance on the Handling of Substances Hazardous to Water).

13. Disposal considerations

13.1 Waste treatment methods

General information: No data available.

Disposal methods: With compliance with local official regulations may be placed in a hazardous waste combustor.

14. Transport information

14.1 UN number

Not regulated as dangerous substance

14.2 UN shipping name

Not regulated as dangerous substance

14.3 Transport hazard class(es)

Not regulated as dangerous substance

14.4 Packing group

Not regulated as dangerous substance

14.5 Environmental hazards

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14.6 Special precautions for users

Not applicable

14.7 Transport in bulk in accordance with MARPOL Annex II and the IBC Code

Not applicable for products as supplied.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific to the substance or mixture in question:
EU. Directive 2012/18/EU (SEVESO III) on major-accident hazards involving dangerous substances, as amended:
Not applicable

15.2 Chemical safety assessment: A substance safety assessment has not been carried out for this product.

16. Additional information

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

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.