

Material safety data sheet

According to EU Regulation 1907/2006 in the current version

EMULSIFIER GREEN CONDITIONER

1. Identification of the substance/mixture and company

Trade name: Emulsifier Green Conditioner
I.N.C.I. Cetearyl Alcohol, Lecithin, Sodium Cetearyl Sulfate, Vegetable Oil
CAS No. : 67762-27-0, 8002-43-5, 68955-20-4, 68956-68-3
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

According to UN GHS criteria

Aquatic Acute 3

For the classifications not written out in full in this section the full text can be found in section 16.

2.2 Label elements

Globally Harmonized System (GHS)

Hazard Statement:

H402 Harmful to aquatic life.

Precautionary Statements (Prevention):

P273 Avoid release to the environment.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point

2.3 Other hazards:

No specific dangers known, if the regulations/notes for storage and handling are considered

3. Declaration of ingredients

3.1. Substances

Non-applicable

3.2. Mixtures

Chemical nature

Blend based on: Alcohols, C16-18, Lecithins, Sulfuric acid, mono-C16-18-alkyl esters, sodium salts

Hazardous ingredients (GHS)

According to UN GHS criteria

Sulfuric acid, mono-C16-18-alkyl esters, sodium salts

Content (W/W): $\geq 5\%$ - $< 15\%$

CAS Number: 68955-20-4

EC-Number: 273-258-7

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Acute Tox. 5 (oral)
Skin Corr./Irrit. 2
Eye Dam./Irrit. 1
Aquatic Acute 2
Aquatic Chronic 3
H318, H315, H303, H412, H401
Specific concentration limit:
Eye Dam./Irrit. 2: 20 - 55 %
Eye Dam./Irrit. 1: > 55 %
Skin Irrit. 2: > 55 %

For the classifications not written out in full in this section the full text can be found in section 16.

4. First aid measures

4.1 Description of first aid measures

If adverse health effects develop seek medical attention.

If inhaled:

not relevant.

On skin contact:

After contact with skin, wash immediately with plenty of water.

On contact with eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Seek medical attention.

On ingestion:

Rinse mouth and then drink 200-300 ml of water.

4.2 Main symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Hazards: No hazard is expected under intended use and appropriate handling.

4.3 Indication to consult a physician immediately or any special treatments:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire fighting measures

5.1 Means of extinction

Extinguishing media

Suitable extinguishing media: water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons: carbon dioxide

5.2 Special hazards arising from the substance or mixture

Harmful vapours

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Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

5.3 Recommendations for fire-fighters

Special protective equipment: Wear a self-contained breathing apparatus.

Further information: Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

6.1 Personal precautions, protective devices and emergency procedures

Use personal protective clothing.

6.2 Environmental precautions

Do not discharge into drains/surface waters/groundwater

6.3 Methods and materials for containment and remediation

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Pick up with suitable appliance and dispose of.

Dispose of absorbed material in accordance with regulations.

6.4 Reference to other sections

See sections 8 and 13.

7. Handling and storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

Conditions for safe storage, including any incompatibilities

Suitable materials for containers: High density polyethylene (HDPE)

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

Storage stability:

Storage temperature: $\leq 30^{\circ}\text{C}$

The substance/product may cake if the storage temperature is exceeded.

Protect from temperatures above: 30°C

Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

8. Exposure controls / personal protection

Control parameters

Components with occupational exposure limits

No substance specific occupational exposure limits known.

Exposure controls

Personal protective equipment

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Respiratory protection:

Wear respiratory protection if ventilation is inadequate.

Hand protection:

Suitable are protective gloves with the following specification. The recommendation is valid for laboratory conditions, specific workplace conditions must be taken into consideration separately.

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): nitrile rubber (NBR) - 0.2 mm coating thickness

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice

9. Physical and chemical properties

9.1 Information on physical and chemical properties

Form: pastilles

Colour: amber to brown

Odour: characteristic

Odour threshold: not applicable

pH value: 5 – 6 (water, 5 % (m), 20 °C) (ISO 4316)

melting range: 40 - 55 °C (measured)

Flash point: > 101 °C (Unspecified)

Evaporation rate:

The product is a non-volatile solid.

Flammability: not flammable

Flammability of Aerosol Products: not applicable, the product does not form flammable aerosoles

Lower explosion limit:

For solids not relevant for classification and labelling.

Upper explosion limit:

For solids not relevant for classification and labelling.

Ignition temperature: not determined

Vapour pressure: not applicable

Relative vapour density (air): not applicable

Solubility in water: emulsifiable

Solubility (qualitative) solvent(s): distilled water emulsifiable

Solubility (qualitative) solvent(s): hydrocarbons partly soluble

Partitioning coefficient n-octanol/water (log Kow): not determined

Self ignition: not self-igniting

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Viscosity, dynamic: not applicable, the product is a solid

Viscosity, kinematic: not applicable, the product is a solid

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

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Other information

Self heating ability: It is not a substance capable of spontaneous heating.

Bulk density: approx. 1 g/cm³ (Directive 92/69/EEC, A.3)

Hygroscopy: Non-hygroscopic

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

No further information available.

10. Stability and reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

Conditions to avoid

See SDS section 7 - Handling and storage.

Incompatible materials

Substances to avoid:

No substances known that should be avoided.

Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion.

Experimental/calculated data:

LD50 (oral): > 5.000 mg/kg

Irritation

Assessment of irritating effects:

Not irritating to the skin.

Not irritating to the eyes.

Experimental/calculated data:

Skin corrosion/irritation: non-irritant

Serious eye damage/irritation: non-irritant

Respiratory/Skin sensitization

Assessment of sensitization:

There is no evidence of a skin-sensitizing potential.

Germ cell mutagenicity

Assessment of mutagenicity:

The chemical structure does not suggest a specific alert for such an effect.

Carcinogenicity

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Assessment of carcinogenicity:

Based on the ingredients there is no suspicion of a carcinogenic effect in humans.

Reproductive toxicity

Assessment of reproduction toxicity:

The chemical structure does not suggest a specific alert for such an effect.

Developmental toxicity

Assessment of teratogenicity:

No data was available concerning toxicity to development.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity: None known

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

12. Ecological information

Toxicity

Assessment of aquatic toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Toxicity to fish: LC50 > 10 - 100 mg/l

Microorganisms/Effect on activated sludge: EC0 > 100 mg/l

Chronic toxicity to aquatic invertebrates:

No observed effect concentration > 1 - 10 mg/l

Persistence and degradability

Assessment biodegradation and elimination (H2O):

Readily biodegradable (according to OECD criteria).

Elimination information:

(Annex III , part A) The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer.

Bioaccumulative potential

Assessment bioaccumulation potential:

No data available.

Mobility in soil

Assessment transport between environmental compartments:

Volatility: not applicable

Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification

Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

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13. Disposal considerations

Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport information

Land transport

ADR

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for user

None known

RID

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for user

None known

Inland waterway transport

ADN

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for user:

None known

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable

UN proper shipping name: Not applicable

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Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental hazards: Not applicable
Special precautions for user
None known
Air transport
IATA/ICAO
Not classified as a dangerous good under transport regulations
UN number or ID number Not applicable
UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental hazards: Not applicable
Special precautions for user
None known
Maritime transport in bulk according to IMO instruments
Maritime transport in bulk is not intended.

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

16. Additional information

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Aquatic Acute Hazardous to the aquatic environment - acute
Acute Tox. Acute toxicity
Skin Corr./Irrit. Skin corrosion/irritation
Eye Dam./Irrit. Serious eye damage/eye irritation
Aquatic Chronic Hazardous to the aquatic environment - chronic
Skin Irrit. Skin irritation
H318 Causes serious eye damage.
H315 Causes skin irritation.
H303 May be harmful if swallowed.
H412 Harmful to aquatic life with long lasting effects.
H401 Toxic to aquatic life

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

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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.