

## Material safety data sheet

According to EU Regulation 1907/2006 in the current version

### COMFREY EXTRACT

#### 1. Identification of the substance/mixture and company

Trade name: COMFREY EXTRACT  
I.N.C.I. Aqua, Glycerin, Symphytum Officinale Leaf Extract, Sodium Benzoate, Potassium Sorbate, Citric Acid  
CAS No. : /  
EINECS 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

Classification (67/548/EEC)

This product is not dangerous according to REACH Regulation 1907/2006.

Classification (EU1272/2008)

This product does not belong to any list of substances supposedly hazardous to human or animal health according to EU Regulation 1272/2008 & any further amendments, nor to those having recognized exposition limits. Care should be taken when handling hot oil as it may constitute a burn hazard. Spills can constitute a slippage hazard.

##### 2.2 Label elements

Label in accordance with Regulation (EC) No 1272/2008.

GHS Label: None.

Signal Word: None.

Contains: None.

Hazards Statement: None.

Signal Word :None.

Precautionary Statements: None.

Supplementary Precautionary Statements: None.

Adverse physio-chemical properties: None.

Adverse effects on human health: None

#### 3. Declaration of ingredients

##### 3.1. Substances

Not applicable

##### 3.2. Mixtures

Substance	C.A.S.	EINECS	Percent %
Glycerin	56-81-5	200-289-5	>44.7

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Aqua	7732-18-5	231-791-2	>44.7
Symphytum officinale leaf extract	84696-05-9	283-625-3	<10
Citric acid	77-92-9	201-069-1	0.2
Sodium benzoate	532-32-1	280-534-8	0.2
Potassium sorbate	24634-61-5	246-376-1	0.2

#### 4. First aid measures

##### 4.1 Description of first aid measures

Eye contact : flush eyes with water during several minutes, by massaging eyelids.

Skin contact : normally, the product does not irritate the skin. In case of irritation, rinse with soap and water

In case of excessive inhalation : move person to fresh air

Ingestion : rinse the mouth with water

You can get medical attention.

##### 4.2 Main symptoms and effects, both acute and delayed

No data available

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

No data available

#### 5. Fire fighting measures

##### 5.1 Means of extinction

Suitable extinguishing media: foam, CO<sub>2</sub>, powder

##### 5.2 Special hazards arising from the substance or mixture

For high temperature, combustion and production of acrolein.

##### 5.3 Recommendations for fire-fighters

Standard. Wear self-contained breathing apparatus in confined spaces

#### 6. Accidental release measures

##### 6.1 Personal precautions, protective devices and emergency procedures

None Required.

##### 6.2 Environmental precautions

Dilute the product with water. Avoid spillage into sewerage or natural environment

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#### 6.3 Methods and materials for containment and remediation

Methods and equipment for cleaning : collect liquids by absorbing product (sand, kieselguhr, sawdust, ...).

#### 6.4 Reference to other sections

none

### 7. Handling and storage

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#### 7.1 Precautions for safe handling

Handle in accordance with good hygiene and safety practice. normal work and hygiene practises for handling non hazardous product. Don't smoke, neither eat, nor drink in the working zones. Do not eat, drink, sniff or smoke whilst handling this product. Provide suitable mechanical equipment for the safe handling of drums & heavy packages.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep the product container tightly closed, in a dry, ventilated area. Keep away from potential sources of ignition and protected from light. Maintain limited contact with oxygen.

#### 7.3 Specific end uses

No data available

### 8. Exposure controls / personal protection

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#### 8.1 Control parameters

No data available

#### 8.2 Exposure controls

Eye Protection: Not required, however we still recommend taking precautions by wearing protective eye-wear when handling the product.

Hand Protection: None.

Respiratory Equipment: None.

### 9. Physical and chemical properties

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#### 9.1 Information on physical and chemical properties

Appearance: liquid

Color: yellow-brown

Odor: characteristic

pH-value: 4-6

Melting point: no data available

Boiling point: >100°C

Sublimation point: no data available

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Softening point: no data available  
Flash point: > 95 °C  
Autoignition : does not ignite spontaneously  
Density: 1.070-1.160 g / cm<sup>3</sup>  
Solubility in the water at 20°C : Completely soluble; Miscible with alcohol  
Vapor pressure: no data available  
Lower explosion limits: no data available  
Upper explosion limits: no data available  
Vapor pressure: no data available  
Partition coefficient: no data available  
Vapor density: no data available

#### 9.2 Other information

None

### 10. Stability and reactivity

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#### 10.1 Responsiveness

No data available

#### 10.2 Chemical stability

Stable under suggested storage conditions

#### 10.3 Possibility of dangerous reactions

No.

#### 10.4 Conditions to avoid

no other available important information

#### 10.5 Incompatible materials

no other available important information

#### 10.6 Hazardous decomposition products

For high temperature, combustion and production of acrolein.

### 11. Toxicological information

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#### 11.1 Information on toxicological effects

Acute Toxicity:

Data for the glycerin :

Acute toxicity :

LD50 (oral rat) : 27 200 mg /Kg

LD50 (oral mouse) : 23 000 mg /Kg

LD50 (oral guinea pig) : 10 000 mg /Kg

LD50 (dermal guinea pig) : 56.75 mg /kg

Irritating and corrosive effects :

skin irritation : not supposed to be irritant

eyes : not supposed to be irritant

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#### Repeated dose toxicity :

oral : NOAEL (chronic rat) : 8000 - 10 000 mg /Kg

dermal (subchronic rabbit) : the effects following repeated dermal application of glycerin was examined. There were no effects noted in rabbits dosed 8 hours/day, 5 days/week for 45 weeks with dose levels as high as 4.0 ml/kg. Using a density of 1.2611 g/cm<sup>3</sup> at 20 °C, a dose of 4.0 ml/kg corresponds to 5040 mg/kg/day

Sensibilization : not supposed to be sensitizing

Other more information : natural substance

## 12. Ecological information

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General information : do not allow undiluted product or large quantities to reach ground water, water course or sewage system.

#### Data for the glycerin :

Environmental Precautions : Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

Biodegradation in water : biodegradable under 24H

Short-term toxicity to fish :

LC50 (96H) : 54 000 mg /l (Salmo gairdneri or Oncorhynchus mykiss)

LC50 (24H) : >5000 mg /l (Carassius auratus)

Short-term toxicity to aquatic invertebrates :

EC50 (24h) : >10 000 mg /l (Daphnia magna)

Toxicity to algae and cyanobacteria : EC3 : 2 900 mg /l (Microcystis aeruginosa)

EC3 : >10 000 mg /l (Scenedesmus quadricauda)

Toxicity to microorganismes :

The toxicity threshold (comparable to a NOEC) in a 16 hour study was >10 000 mg./L.

## 13. Disposal considerations

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### 13.1 Waste treatment methods

Destroy according to local, state and federal regulations Avoid the discharge in the environment.

Recommended cleansing agent : water, if necessary with cleaning

## 14. Transport information

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Warning icon: Road (ADR), Rail (RID), Sea (IMDG) and Air (ICAO), transport not restricted in drums or food tankers.

Shipping Name: Not Applicable.

UN Number (Road): Not Applicable.

ADR Class :Not Applicable.

Hazard Number (ADR): Not Applicable.

Hazchem Code: Not Applicable.

UN Number (Sea): Not Applicable.

IMDG Class: Not Applicable.

IMDG Pack GR.: Not Applicable.

EMS: Not Applicable.

UN Number (Air): Not Applicable.

Air Class: Not Applicable.

Air Pack GR.: Not Applicable

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#### 15. Regulatory information

15.1 Regulations and legislation on health, safety and environment specific to the substance or mixture

This product is not classified according to the 1272/2008/CE regulation

15.2 Chemical safety assessment.

Assessment has not been carried out as this is a non-hazardous material according to article 31 of REACH 1907/2006.

#### 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.

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.

#### DECLARATION OF ALLERGENS

7th Amendment to Directive 76/768/EC, annex III, part I (2003/15/EC)

I.N.C.I.	C.A.S.	%
Alpha-Hexyl cinnamic aldehyde (HCA)	101-86-0	0.0000
Amyl cinnamic alcohol	101-85-9	0.0000
Amyl cinnamic aldehyde (ACA)	122-40-7	0.0000
Anisyl alcohol	105-13-5	0.0000
Benzyl salicylate	118-58-1	0.0000
Benzyl benzoate	120-51-4	0.0000
Benzyl cinnamate	103-41-3	0.0000

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Benzyl alcohol	100-51-6	0.0000
Cinnamic alcohol	104-54-1	0.0000
Cinnamic aldehyde	104-55-2	0.0000
Citral	5392-40-5	0.0000
Cinnamal	104-55-22	0.0000
Coumarin	91-64-5	0.0000
Citronellol	106-22-9	0.0000
Coumarin (2p-1-benzopyran-2-one)	91-64-5	0.0000
d-Limonene	5989-27-5	0.0000
Eugenol	97-53-0	0.0000
Everina Prunastri Extract	900028-68-5	0.0000
Everina Furfuracea Extract	900028-67-4	0.0000
Farnesol	4602-84-0	0.0000
Geraniol	106-24-1	0.0000
Lylal (Hydroxymethylpentyl cyclohexene carbaldoxaldehyde)	31906-04-4	0.0000
Hydroxycitronellal	107-75-5	0.0000
Isoeugenol	97-54-1	0.0000
alpha-Iso-methyl ionone	127-51-5	0.0000
Linalool	78-70-6	0.0000
Methyl heptine carbonate	12/06/11	0.0000
Oakmoss absolute	9000-50-4	0.0000
p-tert-Butyl-alpha- methylhydrocinnamic aldehyde	80-54-6	0.0000
Tree moss	68648-41-9	0.0000

#### 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.