



## Material safety data sheet

According to EU Regulation 1907/2006 in the current version

### HORSETAIL EXTRACT

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

Trade name: HORSETAIL EXTRACT  
I.N.C.I. Aqua, Glycerin, Equisetum Arvense Extract, Sodium Benzoate, Potassium Sorbate, Citric Acid  
CAS No. : /  
EINESCS No. : /  
REACH pre-registration No. : /  
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.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

Not classified according to the 1272/2008/CE regulation.

##### 2.2 Label elements

According to the european directives, the usual measures of security must be applied in case of manipulation of chemicals.. The product is not identified according to the european directives/the national respective laws 2008/58/CE (30eme ATP) ; 2009/2/CE (31eme ATP) ; 2006/8/CE

Results of the PBT and vPvB evaluations :

- PBT: not applicable.
- vPvB: not applicable.

#### 3. Declaration of ingredients

Main constituents	C.A.S.	EINECS	Percent %
Glycerin	56-81-5	200-289-5	>44.7
Aqua	7732-18-5	231-791-2	>44.7
Equisetum arvense extract	71011-23-9	275-123-8	<10
Citric acid	77-92-9	201-069-1	0.2
Sodium benzoate	532-32-1	208-534-8	0.2
Potassium sorbate	24634-61-5	246-376-1	0.2

#### 4. 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.



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## 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

Particular risk for high temperature, combustion and production of acrolein

### 5.3 Recommendations for fire-fighters

Wear self-contained breathing apparatus.  
Be careful during the fight of chemicals

## 6. Accidental release measures

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

Not necessary

### 6.2 Environmental precautions

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

### 6.4 Reference to other sections

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

## 7. Handling and storage

### 7.1 Precautions for safe handling

Normal work and hygiene practises for handling non hazardous product. Don't smoke, neither eat, nor drink in the working zones.

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

Indifferent packaging

### 7.3 Specific end uses

No data available

## 8. Exposure controls / personal protection

General measures of security and hygiene : the usual measures of security must be applied in case of manipulation of chemicals.

Safety glasses and gloves may be worn. Slip proof shoes may be worn where spills may occur.



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## 9. Physical and chemical properties

### 9.1 Information on physical and chemical properties

Appearance: liquid light brown  
Color: light brown  
Odor: characteristic  
pH-value: 4 - 6  
Melting point: no data available  
Boiling point: no data available  
Sublimation point: no data available  
Softening point: no data available  
Flash point: > 95 °C  
Lower explosion limits: no data available  
Upper explosion limits: no data available  
Vapor pressure: no data available  
Density (at 20 °C): 1.070 – 1.160 g/cm<sup>3</sup>  
Water solubility: Completely soluble  
Miscible with alcohol  
Autoignition T° : not applicable  
Autoignition : does not ignite spontaneously  
Solubility in other solvents: no data available  
Partition coefficient: no data available  
Vapor density: no data available

### 9.2 Other information

None

## 10. Stability and reactivity

### 10.1 Responsiveness

Stable under normal handling, storage and usage conditions.

### 10.2 Chemical stability

No data available

### 10.3 Possibility of dangerous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

For high temperature, combustion and production of acrolein

## 11. Toxicological information

### 11.1 Information on toxicological effects



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No data available on this substance.

#### **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

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

*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

### 13.1 Waste treatment methods

Destroy according to local, state and federal regulations

Avoid the discharge in the environment.



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Recommended cleansing agent : water, if necessary with cleaning

#### 14. Transport information

Product is not classified for ADR (road, directive 94/55/CE), RID (rail, directive 96/49/CE), IMDG (sea), ICAO-TI nor for IATA-DGR (air).

#### 15. Regulatory information

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

#### 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	-
Amyl cinnamic alcohol	101-85-9	-
Amyl cinnamic aldehyde (ACA)	122-40-7	-
Anisyl alcohol	105-13-5	-
Benzyl salicylate	118-58-1	-
Benzyl benzoate	120-51-4	-
Benzyl cinnamate	103-41-3	-



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

#### 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.