



**Material safety data sheet**  
According to EU Regulation 1907/2006 in the current version  
**Acmella Extract**

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

Trade name:	Acmella Extract
INCI	Oily (MCT) extract of Acmella oleracea flower
CAS No. :	Caprylic/Capric triglyceride, Acmella oleracea flower extract
EINESCS/EC No. :	73398-61-5 (or 85409-09-2 or 438544-49-1) / 90131-24-1
REACH pre-registration No. :	277-452-2 (or 287-075-5 or none) / 290-335-0
Utilization:	-
Supplier company identification:	Raw material for cosmetic or professional use
Emergency:	<b>Elemental SRL</b> , Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania Tel/Fax: +40259-436.755, www.elemental.eu
	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 according to Regulation (EC) No 1272/2008

The product is not classified as hazardous to health or environment according to the CL regulation.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC  
Not applicable.

- Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

#### 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008
- Hazard statements

Void

- Labelling according to EU guidelines:

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV) .

- GHS label elements

Void

- US NFPA 704 (National Fire Protection Association) Hazard Rating System
- Health hazard: Rating 0: Normal material.
- Flammability: Rating 0: Will no burn.
- Reactivity: Rating 0: Stable.
- Other hazard information: None.



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### 2.3 Other hazards

- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

## 3. Declaration of ingredients

### 3.2 Chemical characterization

- Description:
- Dangerous components:

Mixture: consisting of the following components. This section describes all components of the mixture. When no classification is mentioned below the identification of the substance the substance shall be considered not classified according to Regulation EC 1272/2008 and Directive 67/548/EEC.

CAS/EC number	Description Index R-phrases	%
73398-61-5 277-452-2	Glycerides, mixed decanoyl and octanoyl	75.0<A1<100
90131-24-1 290-335-0	Acmella Oleracea ext./Spilanthes acmella ext. Record number EXEMPTED (< 1T)	1.0<E<5.0

- Additional information:

For the wording of the listed risk phrases refer to section 16.

## 4. First aid measures

### 4.1 Description of first aid measures

- General information:

No special measures required.

- After inhalation:

Supply fresh air ; consult doctor in case of complaint.

- After skin contact:

Wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

- After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing:

Seek immediate medical advice.

- Information for doctor:

No further relevant information available.



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**4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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**5. Fire fighting measures**

**5.1 Extinguishing media**

• Suitable extinguishing agents: CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

No further relevant information available.

**5.3 Advice for firefighters**

No special measures required.

• Protective equipment: No special measures required.

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**6. Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective clothing.

Particular danger of slipping on leaked/spilled product.

**6.2 Environmental precautions**

Do not allow product to reach sewage system or any water course.

Do not allow to enter sewers/ surface or ground water.

**6.3 Methods and material for containment and cleaning up**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Pick up mechanically.

Ensure adequate ventilation.

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**7. Handling and storage**

**7.1 Precautions for safe handling**

No special measures required.

• Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. No special measures required.

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

No special requirements.

**7.3 Specific end use(s)**

No further relevant information available.



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## 8. Exposure controls / personal protection

### 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information:

The lists valid during the making were used as basis.

### 8.2 Exposure controls

- General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.

- Respiratory protection: Not necessary if room is well-ventilated.

- Protection of hands: Protective gloves

- Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- Eye protection: Safety glasses

- Body protection: Protective work clothing

## 9. Physical and chemical properties

Form: Fluid

Colour: Light yellow

Odour: Light

Boiling point/Boiling range: < 250 °C Extrapolation from main components of the mixture (read across): Glycerides, mixed decanoyl and octanoyl (CAS 73398-61-5).

Flash point: 250,0 °C Extrapolation from main components of the mixture (read across): Glycerides, mixed decanoyl and octanoyl (CAS 73398-61-5).

Flammability (solid, gaseous): Not applicable.

Ignition temperature (auto-ignition): > 350,00 °C Extrapolation from main components of the mixture (read across): Glycerides, mixed decanoyl and octanoyl (CAS 73398-61-5).

Danger of explosion: Not determined.

Vapour pressure: Very low. < 0.01 (20°C). Extrapolation from main components of the mixture (read across): Glycerides, mixed decanoyl and octanoyl (CAS 73398-61-5).

Relative density : 0,930 – 0,960

Vapour density Not determined.

Solubility in / Miscibility with water: Insoluble.

## 10. Stability and reactivity

### 10.1 Reactivity

Stable.

### 10.2 Chemical stability

Stable.



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- Thermal decomposition / conditions to be avoided:  
No decomposition if used according to specifications.

**10.3 Possibility of hazardous reactions**

No dangerous reactions known.

**10.4 Conditions to avoid**

No further relevant information available.

**10.5 Incompatible materials**

No further relevant information available.

**10.6 Hazardous decomposition products**

Carbon monoxide and carbon dioxide

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**11. Toxicological information**

**11.1 Summary**

A summary of the evaluation is presented here after.

- Acute toxicity: LD/LC50 values relevant for classification:

Oral, LD50: > 2001 mg/kg (rat)

- Primary irritant effect:

• on the skin:

No irritant effect.

Not classified (Dangerous Preparations Directive DPD 88/379/EEC).

- on the eye:

No irritating effect.

Not classified (Dangerous Preparations Directive DPD 88/379/EEC).

- Sensitization:

No sensitizing effects known.

Not classified (Dangerous Preparations Directive DPD 88/379/EEC).

- Subacute to chronic toxicity:

No data available.

Toxicological information about product :

No toxicity study has been done on the product.

The toxicity assessment of our product is based on a read-across approach (structurally related substances). Health effects of our product are predicted from data on similar substances. Only the studies important for the product classification are listed here after. Contact us for the complete list of studies.

- Primary cutaneous and corrosive irritation :

- Species : Rabbit

- Concentration : Pure



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- Result : Non irritant.
  - Reference : Gattefossé data
  - Product tested : RB 5 004
  
  - Ocular irritation and reversibility :
    - Species : Rabbit
    - Concentration : Pure
    - Result : Slightly irritant.
    - Reference : Gattefossé data
    - Product tested : RB 5 004
  
  - Acute toxicity (oral) :
    - Species : Rat
    - Concentration : Pure
    - Result : LD50 > 2000 mg/kg bw.
    - Reference : Gattefossé data
    - Product tested : RB 5 004
  
  - Mutagenicity/Genotoxicity :
    - Method : Ames - Reverse Mutation Test Using Bacteria.  
With and without metabolic activation.
    - Result : Negative.
    - Reference : Gattefossé data
    - Product tested : RB 5 004
    - Other studies : Results (both studies): negative.  
Mammalian Erythrocyte Micronucleus Test.  
Mammalian Cell Gene Mutation Test.

## 12. Ecological information

### 12.1 Summary

A summary of the evaluation is presented here after.

- Aquatic toxicity:

Glycerides, mixed decanoyl and octanoyl

- fish, LC0 : (96H) > 53 mg/l
- alga, EC50 (S): (72H) > 0.449 mg/l
- daphnia, LOEC : (21DAYS) > 0.01 mg/l
- alga, NOEC (S): (72H) > 0.449 mg/l
- daphnia, NOEC : (21DAYS) > 0.01 mg/l
- daphnia, EC50 : (48H) > 100 mg/l
- /, Biodegradabilit : (28DAYS) > 92 %
- /, log P oct/wat : > 8 (CALCUL) /

### 12.2 Persistence and degradability

Easily biodegradable

Not classified (Dangerous Preparations Directive DPD 88/379/EEC).



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Extrapolation from main components of the mixture (read across): Glycerides, mixed decanoyl and octanoyl (CAS 73398-61-5).

**12.3 Bioaccumulative potential**

A worth-mentioning accumulation in organisms is not expected.

Not classified (Dangerous Preparations Directive DPD 88/379/EEC).

Extrapolation from main components of the mixture (read across): Glycerides, mixed decanoyl and octanoyl (CAS 73398-61-5).

**12.5 Results of PBT and vPvB assessment**

Not classified PBT and vPvB (Annex VI Regulation (EC) No 1272/2008).

Indications about product : No ecotoxicity study has been done on the product.

The ecotoxicity assessment of our product is based on a read-across approach (structurally related substances). Environment effect and environmental fate of our product are predicted from data on similar substances.

**13. Disposal considerations**

**13.1 Waste treatment methods**

- Recommendation

Must be disposed of an incinerator.

- Recommendation about packaging :

Disposal must be made according to official regulations.

Packaging may be reused or recycled after cleaning.

**14. Transport information**

- Land transport ADR/RID (cross-border)

Not regulated.

- Maritime transport IMDG:

Not regulated.

- Air transport ICAO-TI and IATA-DGR:

Not regulated.

- Environmental hazards:

Not applicable.

- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

**15. Regulatory information**

- Labelling according to EU guidelines:

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- National regulations:

Additional classification according to Decree on Hazardous Materials, Annex II: Not classified.

- Classification according to VbF:

Not classified.

- Classification WGK (Water hazard classes - Wassergefährdungsklassen):

Wassergefährdungsklasse (WGK) : Not classified (nicht wassergefährdend).

- Classification HMIS (Hazardous Materials Identification System)

- Health: Cat 0 : no significant risk to health.

- Flammability: Cat 0: Materials that will not burn.

- Reactivity (HMIS® I and II - now obsolete) Please consult NFPA classification.

- Physical Hazard (HMIS® III): Cat 0: Materials that are normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosives.

- Personal Protection: Cat C: Safety glasses + Gloves + Protective apron.

- International rules :

- USA : Conforms to US TSCA (Toxic Substance Control Act). Substances that are regulated under other federal regulations (ie food additives, drug, cosmetics etc) are not subject to TSCA.

## 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.





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**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.