

EPO Istituto Farmochimico Fitoterapico S.r.l.

Via Stadera 19 - 20141 Milano
tel.: +39-02-89557.1 fax +39-02-89557.390

MATERIAL SAFETY DATA SHEET

In accordance with Regulation 2006/1907/EC and amendments

Arnica liposoluble extract

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product: Arnica liposoluble extract
Botanical name: Arnica montana L. aut Arnica spp.
Code: 5003300
Description: liposoluble extract of "Arnica montana L. aut Arnica spp."
INCI name: ARNICA MONTANA FLOWER EXTRACT
CAS number: 68990-11-4
EINECS/ELINCS number: 273-579-2

1.2. Relevant identified uses of the substance or mixture and uses advised against

Raw material for cosmetics.

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier: EPO Istituto Farmochimico Fitoterapico S.r.l., Via Stadera 19 - 20141 Milano

Competent person for data sheet: lzuccarello@eposrl.com +39 02-89557327

1.4. Emergency telephone number

Contact the nearest poison centre.

On the website of the World Health Organization (WHO) (www.who.int), in correspondence of the International Programme on Chemical Safety (IPCS) is available the World directory of poisons centres.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Hazard classification in accordance with Regulation 2008/1272/EC: This product is not classified as hazardous under Regulation 1272/2008/EC.

2.2. Label elements

The product does not need to be labelled in accordance with EC directives.

2.3. Other hazards

PBT: The product contains no components considered PBT

vPvB: The product contains no components considered vPvB

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Components	%	CAS	EINECS/ELINCS	Classification in accordance with Reg. 2008/1272/EC
Arnica vegetal extract	5.0 - 10.0	68990-11-4	273-579-2	N.A.
Corn oil	a 100.0	8001-30-7	232-281-2	N.A.

SECTION 4: First aid measures

4.1. Description of first aid measures

By inhalation: go away in ventilated area. If you feel unwell consult a doctor. If not breathing, give artificial respiration.

By skin contact: immediately remove contaminated clothing. Wash thoroughly with cold water or tempered water and soap. In case of redness consult a doctor.

By eye contact: as a precaution flush eyes with water.

By ingestion: consider the amount ingested. Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.

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

No available data.

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

Should any symptom-caused by inhalation, skin and eye contact or ingestion arise and persist seek medical advise. Show this safety data sheet to doctor.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable fire extinguishing: CO₂, dry chemical, alcohol-resistant foam or water spray according to the materials involved in fire.
Unsuitable fire extinguishing: direct water stream.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberate carbon monoxide (CO) and carbon dioxide (CO₂); exposure to combustion or decomposition can lead to injuries, also serious ones.

5.3. Advice for firefighters

In case of fire, if necessary, wear respiratory protection devices with independent air supply, gloves, goggles and boots. Do not breathe fumes. Contain the area staying upwind. Water spray may be used to cool closed containers next to fire or heat. Avoid that products used in fire fighting, to enter drains or watercourses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment to avoid inhalation and contact with skin and eyes. Remove sources of ignition. Keep away unprotected persons. Ensure adequate ventilation.

6.2. Environmental precautions

Do not let product enter drains. Keep spills away from any surface water and groundwater. Spills or additional losses should be avoided, if this can be done safely. Inform the competent authorities, should the product reach waterways or sewers.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with absorbent non-combustible material. Store the collected in closed containers, suitable for disposal.

6.4. Reference to other sections

For information on personal protective equipment see section 8.
For information on disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Normal fire prevention measures and environmental protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry and ventilated place, protected from light into the original well closed drums or in plastic containers suitable for good ingredients. Cap tightly after use open containers and kept upright to prevent leakage. Keep away from incompatible substances referred to in section 10.

7.3. Specific end use(s)

For topical use only: masking, perfuming, skin conditioning. Also used as antiseptic, in wound healing and for the relief of bruises, sprains, localised muscular pain and rheumatic complaints. Treatment of alopecia.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Contains no substances with occupational exposure limit value.

8.2. Exposure controls

Design for appropriate times work processes and technical control. Use adequate and materials. Apply collective protection measures at source, such as adequate ventilation and appropriate organization measures. When exposure can not be avoided by other means, apply individual protection measures, such as Personal Protective Equipment.

Respiration protection: For use in suitable processes is not necessary respiratory protection. If you need protection from vapors, use full face masks with filter type A or semi-face masks with filter type A (EN 141). Use respirators and components tested and approved under appropriate government standards such as CEN (EU) and NIOSH (USA).

Hand protection: Handle with gloves resistant to solvents. Gloves should be checked before being used to verify its integrity. Dispose of contaminated gloves after use in accordance with the applicable national legislation. Wash and dry your hands. The selected protective gloves must meet the requirements of Directive 88/686/EEC and the resultant standard EN 374.

Eye protection: Operate according to good working practices. Use eye protection devices tested and approved according to the requirements of appropriate technical standards such as EN 166 (EU) or NIOSH (USA).

Body protection: Normal work wear. Wear, however, a type of physical protection in accordance with the amount of concentration. The use of the above PPE, as well as for safety reasons, it is recommended to avoid any signs of allergic sensitization in subject at risk.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	golden yellow
Density:	0,900 - 0,940 g/ml
Saponification value:	160 - 200
Liposolubility:	totally liposoluble
Flashing point:	> 254° C
Boiling point:	> 350° C
Melting point/freezing point:	n.a.
Ignition temperature:	n.a.
Upper/lower explosive limit:	n.a.
Viscosity:	n.a.

9.2. Other information

n.a.

SECTION 10: Stability and reactivity

10.1. Reactivity

Avoid reactions with strong oxidizing agents.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Contact with sources of ignition possibility of fire. Possible dangerous reaction with strong oxidizing agents.

10.4. Conditions to avoid

Heat, flames and sparks. Avoid storage in poorly ventilated areas. Do not store the substance under direct sunlight. Avoid extreme humidity conditions.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

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In case of fire, oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (in reference to corn oil):

Oral LD50 - rat: 90 g/kg

Irritation: slightly irritating to the skin (corn oil).

Corrosivity: non-corrosive (corn oil).

Sensitisation: no available data.

Specific Target Organ Toxicity:

Repeated exposure: no available data

Single exposure: no available data

Carcinogenicity: no component of this product present at levels $\geq 0.1\%$ is identified as a known carcinogen or expected carcinogen by IARC.

Mutagenicity: no available data.

Toxicity to the reproductive system:

No data available

Potential health effects:

Inhalation: may cause respiratory tract irritation.

Ingestion: no available data.

Skin: no available data.

Eyes: no available data.

Signs and symptoms of exposure: at the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

More information: further toxicological information not known.

SECTION 12: Ecological information

12.1. Toxicity

No available data.

12.2. Persistence and degradability

The product is biodegradable.

12.3. Bioaccumulative potential

There are no known significant phenomena of bioaccumulation.

12.4. Mobility in soil

No available data.

12.5. Results of PBT and vPvB assessment

This product is not and does not contain a substance defined as PBT and vPvB

12.6. Other adverse effects

Experimental data not available. Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product Disposal: entrust to licensed disposal company, in compliance with all European, national and local regulations about environmental protection; take all measures that are necessary to prevent waste production. Do not discharge into drains or the environment.

Disposal of uncleaned packages: dispose of as unused product.

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SECTION 14: Transport information:

14.1. UN number

N.A.

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

N.A.

14.6. Special precautions for user

N.A.

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

N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

This MSDS complies with the requirements of Reg. 2006/1907/EC, of Reg. 2008/1272/EC and of Reg. 2010/453/EU. Please remember, however, the user need to check and comply with specific European, national, regional, and local regulations about hazardous activities and environmental protection.

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Reason for revision: Update

Changes were made to the following sections: 2 / 3 / 4 / 5 / 7 / 8 / 10 / 11 / 12 / 16

INCI: International Nomenclature of Cosmetic Ingredients

CAS: Chemical Abstracts Service

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European list of notified chemical substances

PBT: Chemicals which are Persistent, Bioaccumulative and Toxic.

vPvB: Chemicals which are very Persistent and very Bioaccumulative.

ADR: The European Agreement Concerning the International Carriage of Dangerous Goods by Road

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transport Association

N.A.: not applicable

n.a.: data not available

References:

- European Commission - Institute of Health and Consumer protection;
- Decision 2006/257/EC;
- IARC (International Agency for Research on Cancer);
- Regulation 1907/2006/EC;
- Regulation 1272/2008/EC;
- Regulation 453/2010/EC;
- Regulation 1223/2009/EC;
- Regulation UE n. 1169/2011;
- European Commission Health and Consumers CosIng;
- EFSA – Compendium of botanicals that have been reported to contain toxic, addictive, psychotropic or other substances of concern.
- ECHA – European Chemicals Agency

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Text of hazard (H phrases) statements, supplemental hazard information , safety warnings and precautionary statements (P phrases) is not fully set out in Sections 2 to 15:

Above information derives from our knowledge to this day and, in lack of specific literature, from our own experience in this field and from Good Manufacturing Practice. The user should however, make sure that all the information here in contained be complete and in conformance with the specific use for which the product is destined.

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