BIORUŽA, s. r. o.

Laborecká 1, 010 01 Žilina, IČO: 52234070, IČ DPH: SK2120953802, tel.: 00421 905 864 140, info@bioruza.sk

Material Safety Data Sheet according to Regulation EC 1907/2006/ (modified by Regulation Nr. 453/2010)

1. Identification of the substance/preparation and of the company/undertaking

1.1 Trade name

White wormwood Essential oil;
INCI: Artemisia Vulgaris

1.2 Application of the substance/the preparation

Perfume ingredient. Cosmetics, pharmaceutical and chemical industries. Aromatherapy.

1.3 Details of the Manufacturer/Supplier

Manufacturer
BIORUŽA, s. r. o.

Street/Mailbox
Laborecká 1

Nat.-label/Postcode/City
Žilina 010 01

Phone / Telefax / E-Mail
Tel: +421 905 864 140 E-Mail: info@bioruza.sk

1.4 Emergency advice:

Národné toxikologické informačné centrum
Phone: 02/54774166

2. Hazards Identification

2.1 Hazard description

pictogram / Hazard symbol:



N – dangerous for the environment



Xi – Irritant

Dangerous components description:

Risk-Phrases

R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R43 May cause sensitization by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety-Phrases

S24 Avoid contact with skin.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37 Wear suitable gloves.
S39 Wear eye/face protection.
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

3. Composition/information on ingredients

3.1 Chemical characterization:

Description
Essential oil obtained by steam distillation of the plant of the oil-bearing White wormwood Oil

Dangerous components:
β-Pinene 30.12% (30-42%), Sabinene 26.54% (20-30%), a-phellandrene (4.35%), Cymene (1.44%), Thujone (4.53%), Linalool (4.20%), Caryophyllene (2.58%)/

Additional remarks:
In total more than 20 components are detected, including waxy components that coagulate at lower temperatures.

Wormwood oil also contains: α-Pinene, Camphene, β-Pinene, β-Myrcene, Limonene, cis-β-Ocimene, β- phellandrene, 1,8-cineole, 1-Octen-3yl-acetate, 1-Octene-3-ol, Hexyl butyrate, Camphor, Terpinen-4-ol, Lavandulol, α-Terpineol, Borneol, β-caryophyllene, Terpinenene, Himachalene, Neryl propionate.

CAS EU	84775-45-1
EINECS	283-874-8

4. First Aid Measures

4.1 Description of First Aid Measures

After inhalation: Supply fresh air and to be sure call for a doctor.

After skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several mi**nutes under running water. If symptoms persist, consult a doctor.**

After swallowing: Seek immediate medical advice.

5. Fire – fighting measures

5.1 Extinguishing agents

Suitable: CO2, Sand, extinguishing powder.

Do not use: water (water full jet not to be directed on burning material)

5.2 Hazardous risks caused by the substance/preparation

Flammable
Closed container can setup pressure while warming up.

5.3 Information about fire and explosion protection

If possible cool the container with water spray. Do not inhale explosion or combustion gases. Use suitable respiratory protective device. Residues of burned material have to be removed according to the official regulations.

6. Accidental prevention measures

6.1 Person-related safety precautions:

Keep away from ignition sources. Wear individual protective equipment (water resitant boots, protective clothing, safetyglasses). Care for a well ventilated area.

6.2 Measures for environmental protection.

Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.

6.3 Measures for cleaning and collecting.

Use liquid binding substances (sand, infusorial earth, acid binding agent, saw dust), dispose contaminated material according to item 13. Ensure good ventilation.

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7. Handling and storage

7.1 Handling

Ensure good ventilation at the workplace. Do not eat or drink, while handling with the substance. Keep away from ignition sources and electrostatic charges.

7.2 Storage

Requirements to be met by storerooms and receptacles.

Store in dark, cool and dry conditions (+15°C to +25°C) in well sealed receptacles. Prevent any seepage into the ground.

Storage classification **:** LGK 10 – 13 Other liquids and solids

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8. Exposure controls and personal protection

8.1 Compositions where monitoring of limits at workplace is necessary:

Citronellal

8.2 Personal protective equipment

General protective and hygienic measures:

Follow the common preventive measures while handling chemicals.

Respiratory protection:

Necessary only in case of aerosol- or fog formation

Protection of hands:

Protective gloves made of gum or PVC, for full contact but not longer than 15 min: Neopren. Adequate material for longterm contact: Nitrikautschuk/Nitrillatex Penetrationtime > 480 min., material thickness: 0,35 mm.

Eye protection:
Safety glasses

9. Physical and chemical properties

Form:
liquid to semi-crystallized (if getting cold).

Colour: black

Odor:
Typically wormwood

Flash point:
88 ° C

Relative density at 20°C:
0,879 g/cm³ bis 0,892 g/cm³

Solubility in / Miscibility with water:
Not miscible or difficult to mix.

10. Stability and reactivity:

Reactivity:
No risks of reactivity while contacting water or the substance itself. Avoid contact with strong acids, alkali and oxidizing substances.

Dangerous decomposition products.
While burning, carbonmonoxide and other not identifiable components could appear.

11. Toxicological information

Acute toxicity: not determined Primary irritation:
On skin:
Causes irritation to skin and mucosa.

In the eye
Marginal irritating effect

Sensitisation
Sensitisation while contacting skin is possible

Additional toxicological informations
This product is according to the general EU guidelines for classification of formulations (in its current version): irritant and dangerous for the environment.

12. Ecological information

12.1 Ecotoxical effects:

Toxic to fish

12.2 General notes:

Do not allow product to reach ground water, water course or sewage system. The material is harmful to the environment. Toxic to fish, plankton and other aquatic organisms.

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13. Disposal considerations

Product:
Recommendation:
Disposal should be done like solvents

Uncleanded packaging
Recommendation:
Disposal must be made according to official regulations.

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14. Transport information

Packed in glass bottle
Road, Air & Ship Transport – Allowed
Not hazardous according to RID/ADR, ADNR/AND ,IMO-IMODG ,ICAO-TI/IATA - DGR

Flash point:
88 ° C

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15. Regulatory information

Labeling according to EU guidelines: Dangerous Substances Directive IFRA:

Dangerous symbols	Xi-Irritant N-Dangerous to the environment
R-phrases	R38 Irritant to skin R41 Risk of serious damage to eyes R43 May cause sensitization by skin contact R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases	S24 Avoid contact with skin S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S37 Wear suitable gloves. S39 Wear eye/face protection. S61 Avoid release to the environment. Refer to special instructions/safety data sheet

National Regulations