# Material Safety Data Sheet

Organic Essential Oil of Juniper Berry from Bulgaria

## 1/ Identification of the substance and the company

### 1.1 Identification of the substance

| | |
|---|---|
| Trade name : | Juniper Berry |
| Botanical name : | *Juniperus communis L.* |
| INCI name : | JUNIPERUS COMMUNIS FRUIT OIL |
| Geographical origin : | Bulgaria |

| | | | |
|---|---|---|---|
| N° CAS TSCA : | 8002-68-4 / 73049-62-4 | N° FEMA : | 2604 |
| N° CAS EINECS : | 84603-69-0 | N° FDA : | 182.20 |
| N° EINECS : | 283-268-3 | N° CoE : | 249n |

### 1.2 Use of the substance

Fragrance and flavour

### 1.3 Identification of the company

| | |
|---|---|
| Company name: | IN-LUSTRYS |
| Address : | 294 Montée des Chênes - LaTuilière<br>83136 NEOULES (France) |
| Phone number : | +33 (0)4 98 05 82 28 |
| Email : | qualite@inlustrys.com |

### 1.4 Emergency telephone number

| | |
|---|---|
| ORFILA Organism (poison control center): | +33 (0)1 45 42 59 59 |
| Website : | http://www.centres-antipoison.net |

## 2.1 Classification of the substance

**Classification according to Regulation (EC) No 1272/2008**

Hazard statements:

H226: Flammable liquid and vapour
H304: May be fatal if swallowed and enters airways
H315: Causes skin irritation
H317: May cause an allergic skin reaction
H319: Causes serious eye irritation
H410: Very toxic to aquatic life with long lasting effects

**Classification according to 67/548/EEC and 1999/45/EC**

N: Dangerous for the environment
Xn: Harmful

Risk statements:

R10: Flammable.
R43: May cause sensitization by skin contact.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65: Harmful: May cause lung damage if swallowed.
R66: Repeated exposure may cause skin dryness or cracking.

Safety statements:

S24: Avoid contact with skin.
S37: Wear suitable gloves.
S61: Avoid release to the environment. Refer to special instructions / Safety Data Sheets.
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## 2.2 Label elements

Signal word: Danger

Labelling:


GHS02: Flammable


GHS07: Acute toxicity, irritation, dermal sensitizer, narcotic effects


GHS08: Health hazards


GHS09: Hazardous to aquatic environment

Hazard statements:

H226: Flammable liquid and vapour
H304: May be fatal if swallowed and enters airways
H315: Causes skin irritation
H317: May cause an allergic skin reaction
H319: Causes serious eye irritation
H410: Very toxic to aquatic life with long lasting effects

Precautionary statements:

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
P273: Avoid release to the environment
P280: Wear protective gloves/protective clothing/eye protection/face protection
P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302+352: IF ON SKIN: Wash with soap and water
P501: Dispose of contents/container to …

### 2.3 Other hazards

CMR components: none (methylchavicol : estragole ≤ 0.2%)
Allergens: d-limonene (≤ 10%), linalool (≤ 1%), citronellol (≤ 1%), geraniol (≤ 1%), citral : neral+geranial (≤ 0.5%), eugenol (≤ 0.5%)

## 3/ Composition / information on ingredients

Hazardous components:

| Constituent Name | Identification | | Concentration % |
|---|---|---|---|
| | CAS # | EINECS # | |
| Alpha-Pinene | 80-56-8 | 201-291-9 | ≤ 52% |
| Alpha-Terpinene | 99-86-5 | 202-795-1 | ≤ 4% |
| Beta-Caryophyllene | 87-44-5 | 201-746-1 | ≤ 4% |
| Beta-Phellandrene | 555-10-2 | 209-081-9 | ≤ 3% |
| Beta-Pinene | 127-91-3 | 204-872-5 | ≤ 10% |
| D-Limonene | 5989-27-5 | 227-813-5 | ≤ 10% |
| Gamma-Terpinene | 99-85-4 | 202-794-6 | ≤ 5% |
| Myrcene | 123-35-3 | 204-622-5 | ≤ 30% |
| Terpinen-4-ol | 562-74-3 | 209-235-5 | ≤ 4% |
| Terpinolene | 586-62-9 | 209-578-0 | ≤ 3% |

**Classification:**

| Constituent name | Labelling | Hazard statements | Signal word | Risk statements |
|---|---|---|---|---|
| Alpha-Pinene | GHS02, GHS07, GHS08, GHS09 | H226, H303, H304, H315, H317, H400, H410 | Danger | Xn, N, R10, R43, R50/53, R65 |
| Alpha-Terpinene | GHS02, GHS08, GHS09 | H226, H302, H304, H316, H401, H411 | Danger | N, Xn, R10, R22, R51/53, R65 |
| Beta-Caryophyllene | GHS08 | H304, H316 | Danger | Xn, R65 |
| Beta-Phellandrene | GHS02, GHS08 | H226, H304 | Danger | Xn, R10, R65 |
| Beta-Pinene | GHS02, GHS07, GHS08, GHS09 | H226, H304, H315, H317, H400, H410 | Danger | Xn, N, R10, R43, R50/53, R65 |
| D-Limonene | GHS02, GHS07, GHS08, GHS09 | H226, H304, H315, H317, H400, H410 | Danger | Xi, N, R10, R38, R43, R50/53 |
| Gamma-Terpinene | GHS02, GHS08 | H226, H303, H304, H316 | Danger | Xn, R65 |
| Myrcene | GHS02, GHS07, GHS08 | H226, H304, H315, H319 | Danger | Xn, R52/53, R65 |
| Terpinen-4-ol | GHS07 | H227, H302, H313, H315, H319, H402 | Warning | Xn, R22, R38 |
| Terpinolene | GHS02, GHS08, GHS09 | H227, H303, H304, H316, H317, H400, H410 | Danger | N, Xn, R51/53, R65 |

## 4/ First-aid measures

**In the event of skin contact**

Take off contamined clothing.
Wash immediately with soap and plenty of water.
If irritation, get medical advice.

**In the event of eye contact**

Flush immediately with plenty of flowing water for at least 10 minutes, holding eyelids apart.
Consult an ophtalmologist.

**In the event of ingestion**

I swallowed, rinse mouth with water.
DO NOT induce vomiting.
Get medical advice, showing label information .

**In the event of excessive inhalation**

Move the victim to fresh air.
Get medical advise immediately.

## 5/ Fire-fighting measures

### 5.1 Extinguishing media

| | |
|---|---|
| Recommended : | foam, dry powder, carbon dioxide ($CO_2$) |
| Inadvisable : | avoid full water jet |

### 5.2 Special hazards

In case of fire, toxic fumes like carbon monoxide and carbon dioxide may be liberated.
Burning produces heavy smoke, do not inhale fumes.

### 5.3 Particular protective measures

Particular protective measures when fire-fighthing:
The pressure in the closed containers may increase with high temperature.
Cool the endangered drums by water spraying or by an appropriate produce if water is not authorized.

### 5.4 Advice for firefighters

Move undamaged containers from immediate hazard area if it can be done safely.
Use suitable breathing apparatus.
Regard to self protection.

## 6/ Accidental release measures

### 6.1 Individual precautions

Remove all sources of ignition (Avoid all flammable sources. Do not smoke.)
Provide adequate ventilation.
Give a warning to people in the hazardous area.
Wear personal protection equipment.
Avoid contact with skin, eyes, and clothing.

### 6.2 Precautions for environmental conservation

Stop the substance to enter into drains and groundwater.
Prevent spreading over a wide area.

### 6.3 Cleaning methods

Limit the dispersion of the product.
Absorb the liquid with an inert absorbent, such as oil or sand.
Wash with a grease extractor.
Get rid of the duster and sponges used, according to local regulations.

## 7/ Handling and storage

### 7.1 Handling

Handle with care.
Keep the product away from heat and light.
Remove all sources of ignition.
Do not eat, drink, or smoke when handling the product.
Do not ingest the product.
Wear personal protective clothing.
Use only in well-ventilated areas.

### 7.2 Storage

Fit quantities according to container volume, avoid too important empty spaces.
It is recommended to stock the product in its originalpackaging, tightly closed, shettered from heat sources, air and light.
Avoid important temperature variation. Keep in temperate and well-ventilated area.
Do not re-use empty used containers.
Respect the usual hygiene rules.

Packaging materials to be avoid: iron containers

### 7.3 Specific end use(s)

No data available (confer to above recommendations)

## 8/ Exposure controls / Personal protection

### 8.1 Control parameters

No data available.

### 8.2 Exposure controls

Use in well ventilated areas.
Follow usual hygiene rules. Wash hands after handling the product.
Keep away from food and beverages.
Provide accessible fire-extinguisher.

**Personal protection equipment**

- **Respiratory protection**
  Generally unecessary in a well-ventillated area.
  If ventilation is insufficient, respiratory protection must be worn.
  For pulverulent products, the wearing of a mask is recommended.

- **Hand protection**
  The wearing of chemical solvent and acid resistant gloves is necessary. (according to EN374 regulation)

- **Eye protection**
  The wearing of adequate safety glasses is advised.
  Prescription glasses do not qualify as safety glasses.
  Contact lenses users should wear prescription and safety glasses while using the product.

- **Skin protection**
  Wear personal safety equipment.
  Handle the product with care, avoiding skin contact.

## 9/ Physical and chemical properties

### 9.1 General information

| | |
|---|---|
| Quality: | Organic Essential Oil, 100% pure and natural |
| Appearance: | fluid liquid |
| Colour: | colourless to pale yellow |
| Odour: | characteristic, balsamic, sweet |

### 9.2 Health, security and environmental information

| | |
|---|---|
| Flash point: | +35°C to +45°C |
| Specific gravity at 20°C: | 0.845 à 0.882 |
| Solubility in water: | Insoluble |
| Solubility in ethanol: | Soluble |

### 9.3 Others

| | |
|---|---|
| Refractive index at 20°C: | 1.470 to 1.485 |
| Optical rotation at 20°C: | -15° to +10° |
| Conservation: | Keep in tightly closed container in a cool and dry place, protected from light.<br>Stable at usual storage and use conditions. |
| Lifetime: | When stored for more than 24 months, quality should be checked before use. |
| Main constituents: | α-pinene (35 to 50%), myrcene (5 to 30%), sabinene (5 to 20%), d-limonene (2 to 10%), β-pinene (≤ 10%) |

## 10/ Stability and reactivity

### 10.1 Condition to avoid

Excessive heat, open flames or other sources of ignotion.
This product is stable at room temperature.
Temperatures above room temperature will allow the transfer from liquid to vapour phase and the formation of explosive atmosphere.
Storing the product in open containers will benefit the formation of peroxides and derogate the quality.

### 10.2 Material to avoid or incompatible

No data available.

### 10.3 Dangerous decomposition products

No dangerous decomposition product known, if used according to specifications.

## 11/ Toxicological information

**For dermal and eye absorption:**
Causes skin and severe eye irritation

**For dermal and breathing sensitization:**
May cause a skin allergy

**About mutagenicity:**
Not identified as mutagen

**About carcinogenicity:**
Not identified as carcirogen

**Toxic effects on the reproductive system:**
None

**Inhalation hazards:**
May be deadly in case of ingestion and penetration of respiratory tract

| | | |
|---|---|---|
| **Ill effect by absorption:** | LD oral 50 | ≥ 5000 mg/kg |
| **Ill effect by dermal contact:** | LD dermal 50 | ≥ 5000 mg/kg |

## 12/ Ecological information

Avoid any pollution of soil, ground and surface waters.

### 12.1 Toxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 12.2 Mobility

No data available.

### 12.3 Persistence et degradability

No data available.

### 12.4 Bio-accumulative potential

No data available.

### 12.5 PBT evaluation results

No data available.

### 12.6 Other adverse effects

No data available.

## 13/ Disposal consideration

Dispose of or recycle waste material in accordance with local and EC environmental regulations.

**Air emission :** avoid

**Wastewater disposal :** avoid

**Release into natural environment:** avoid

**Waste destruction:** Appropriate inceneration station

Do not use the empty containers
Get rid of the duster and sponges used by incineration.

## 14/ Transport information

### 14.1 UN number

1169

### 14.2 Class

| | | |
|---|---|---|
| ADR (road) / RID (rail): | Class 3 | (Flammable liquids) |
| IMDG (sea): | Class 3 | (Flammable liquids) |
| IATA (air): | Class 3 | (Flammable liquids) |


### 14.3 Label

Extracts, aromatic, liquid

### 14.4 Packaging group

III

### 14.5 Aquatic toxicity

yes 

### 14.6 Other information

Custom rate code: 33.01.29.41.00

## 15/ Regulatory information

**Classification according to 67/548/EEC and 1999/45/EC**

N: Dangerous for the environment
Xn: Harmful

Risk statements:

R10: Flammable.
R43: May cause sensitization by skin contact.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65: Harmful: May cause lung damage if swallowed.
R66: Repeated exposure may cause skin dryness or cracking.

Safety statements:

S24: Avoid contact with skin.
S37: Wear suitable gloves.
S61: Avoid release to the environment. Refer to special instructions / Safety Data Sheets.
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## 16/ Other information

The information and recommendation contained in the data sheet are, to the best of IN-LUSTRYS's knowledge and belief, an accurate and reliable representation as to this material's known data. It's the user's responsability to evaluate this information in a prudent manner and to use it consistently.

Used acronyms:

| | |
|---|---|
| **INCI** | International Nomenclature of Cosmetic Ingredients |
| **CAS** | Chemical Abstract Service |
| **TSCA** | Toxic Substances Control Act |
| **EINECS** | European Inventory of Existing Commercial Chemical Substances |
| **FEMA** | Federal Emergency Management Agency |
| **FDA** | Food and Drug Administration |
| **CoE** | Council of Europe |
| **GHS** | Global Harmonized System |
| **CLP** | Classification and Labelling and Packaging of substances and mixtures |
| **ADR** | Agreement 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 |
| **PBT** | Persistent Bioaccumulating Toxicants |
| **LD** | Lethal dose |