

Section 1. Product and Company Identification

Product Name Pennyroyal
CAS Number Mixture

Parchem - fine & specialty chemicals
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Section 2. Hazards Identification

Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Acute oral toxicity, Category 4 (Acute Tox. 4, H302).

Skin sensitization, Category 1 (Skin Sens. 1, H317).

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

This substance does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Acute oral toxicity: harmful (Xn, R 22).

Skin sensitization (Xi, R 43).

Aquatic environmental hazard, chronic toxicity: harmful (R 52/53).

This substance does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

GHS Label Elements

Pictograms:



Signal word: WARNING

Hazard and precautionary statements

Hazard Statements

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements - Prevention

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

Precautionary Statements - Disposal

P501 Dispose of contents/container with local regulations

Other hazards: The substance does not satisfy the PBT or vPvB criteria in accordance with annex XIII of the REACH regulations EC 1907/2006.

Section 3. Composition / Information on Ingredients

Common Name Pennyroyal
Synonym(s) Pennyroyal Oil
CAS Number Mixture

COMPONENT	CAS NUMBER	CONCENTRATION
Pulegone	15932-80-6	50 – 100%
(R)-p-Mentha-1,8-diene	5989-27-5	0 – 2.5%
Menthone	89-80-5	0 – 2.5%
Pinenes (Alpha or Beta)	–	0 – 2.5%

Section 4. First Aid Measures

As a general rule, in case of doubt or if symptoms persist, always call a doctor.
NEVER induce swallowing by an unconscious person.

Description of first-aid measures

Eye Contact: Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

Skin Contact: Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognized cleaner. Watch out for any remaining product between skin and clothing, watches, shoes, etc. In the event of an allergic reaction, seek medical attention. If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

Ingestion: Do not give the patient anything orally. In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water, administer activated medical charcoal and consult a doctor. Keep the person exposed at rest. Do not force vomiting. Seek medical attention immediately, showing the label. If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

Most important symptoms and effects, both acute and delayed: No data available.

Indication of any immediate medical attention and special treatment needed: No data available.

Section 5. Firefighting Measures

Non-flammable.

Extinguishing media

Suitable methods of extinction

In the event of a fire, use:

- Sprayed water or water mist
- Foam
- Multipurpose ABC powder
- BC powder
- Carbon dioxide (CO₂)

Unsuitable methods of extinction

In the event of a fire, do not use: Water jet

Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke.

In the event of a fire, the following may be formed:

- Carbon monoxide (CO)
- Carbon dioxide (CO₂)

Advice for firefighters: No data available.

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Consult the safety measures listed under headings 7 and 8.

For Non-firefighters: Avoid any contact with the skin and eyes.

For Firefighters: Fire-fighters will be equipped with suitable personal protective equipment (See section 8).

Environmental precautions: Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal. Prevent any material from entering drains or waterways.

Methods and material for containment and cleaning up: Clean preferably with a detergent, do not use solvents.

Reference to other sections: No data available

Section 7. Handling and Storage

Requirements relating to storage premises apply to all facilities where the substance is handled. Individuals with a history of skin sensitization should not, under any circumstance, handle this substance.

Precautions for safe handling: Always wash hands after handling. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

Fire prevention: Handle in well-ventilated areas. Prevent access by unauthorized personnel.

Recommended equipment and procedures: For personal protection, see section 8. Observe precautions stated on label and also industrial safety regulations. Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures: No smoking, eating or drinking in areas where the substance is used.

Conditions for safe storage, including any incompatibilities: No data available.

Storage: Keep the container tightly closed in a dry, well-ventilated place. Keep away from food and drink, including those for animals. The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Packaging: Always keep in packaging made of an identical material to the original.

Section 8. Exposure Controls / Personal Protection

Control parameters: No data available.

Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE):

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink, or smoke during use. Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Eye/face Protection: Avoid contact with eyes. Use eye protectors designed to protect against liquid splashes. Before handling, wear safety goggles in accordance with standard EN166.

Hand protection: Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374. Gloves must be selected according to the application and duration of use at the workstation. Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended:

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVA (Polyvinyl alcohol)

Recommended properties:

- Impervious gloves in accordance with standard EN374

Body protection: Avoid skin contact. Wear suitable protective clothing.

Suitable type of protective clothing:

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

Section 9. Physical and Chemical Properties

Physical state: Fluid liquid.

Color: Pale yellow to orange

Odor: Characteristic, herbaceous, mentholated

pH: Not relevant.

Boiling point/boiling range: not specified.

Flash Point: 84.00°C.

Vapor pressure (50°C): Between 175 kPa and 300 kPa inclusive.

Density: 0.930 - 0.944

Water solubility: Insoluble.

Viscosity: < 7 mm²/s (40°C)

Melting point/melting range: Not specified.

Self-ignition temperature: Not specified.

Decomposition point/decomposition range: Not specified.

Other information: No data available.

Section 10. Stability and Reactivity

Reactivity: No data available.

Chemical stability: This substance is stable under the recommended handling and storage conditions in section 7.

Possibility of hazardous reactions: When exposed to high temperatures, the substance can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

Conditions to avoid: N/A

Incompatible materials: N/A

Hazardous decomposition products

The thermal decomposition may release/form:

- Carbon monoxide (CO)

- Carbon dioxide (CO₂)

Section 11. Toxicological Information

Information on toxicological effects

Exposure to vapors from this solvent in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Harmful if swallowed.

Repeated or prolonged contact with the substance may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Splashes in the eyes may cause irritation and reversible damage.

May cause an allergic reaction by skin contact.

Substances

Acute toxicity:

Menthone (CAS: 89-80-5)

Oral Route: DL50 = 2500 mg/kg

PULEGONE (CAS: 15932-80-6)

Oral Route: LD50 = 470 mg/kg

Dermal Route: DL50 = 3100 mg/kg

Monograph(s) from the IARC (International Agency for Research on Cancer):

CAS 5989-27-5: IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans.

Section 12. Ecological Information

Harmful to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

Toxicity

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Results of PBT and vPvB assessment: No data available.

Other adverse effects: No data available.

German regulations concerning the classification of hazards for water (WGK): WGK

2 (VwVwS vom 27/07/2005, KBws): Hazardous for water.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2011 - IMDG 2010 - ICAO/IATA 2012).

Section 15. Regulatory Information

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

Classification and labelling information included in section 2:

The following regulations have been used:

- Directive 67/548/EEC and its adaptations
- Directive 1999/45/EC and its adaptations
- Regulation EC 1272/2008 modified by regulation EC 286/2011

Container information: No data available.

Particular provisions: No data available.

German regulations concerning the classification of hazards for water (WGK):

Germany: WGK 2 (VwVwS vom 27/07/2005, KBws)

Chemical safety assessment: No data available.

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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