



Essential Oils, Skincare & Aromatherapy Products

SAFETY DATA SHEET

1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME: Marjoram Essential Oil

SUPPLIER: Celtic Tree Oils, Carlingford, Co. Louth, Ireland, A91 D86V

PRODUCT NUMBER: 34

CAS NUMBER: 8015-01-8, 84082-58-6

EC NUMBER: 282-00404

INCI: Origanum marjorana leaf oil

IDENTIFIED USES: washing and cleaning products; polishes and wax blends, biocides; cosmetics; air care products

BIOLOGICAL DEFINITION: This is a natural substance. The substance has a natural variability in its composition. It is obtained by the steam distillation of the dried leaves and flowering tops of Origanum marjorana.

2: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CAS: 8015-01-8, 84082-58-6

EC: 282-00404

CLASSIFICATION (EC 1272/2008):

- | | |
|--------------------------|---|
| - PHYSICAL HAZARDS: | Flam. Liq. – H226 |
| - HEALTH HAZARDS: | Asp. Tox. 1 – H304
Skin Irrit. 2 – H315
Skin Sens. 1B – H317
Eye Irrit. 2 – H319 |
| - ENVIRONMENTAL HAZARDS: | Aquatic Chronic 2 – H411 |

LABEL ELEMENTS

PICTOGRAM:



SIGNAL WORD:

DANGER

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
H411: Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P264: Wash ... thoroughly after handling.
P273: Avoid release to the environment
P280: Wear protective gloves/clothing/eye-protection/face protection
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor

OTHER HAZARDS:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P331: DO NOT induce vomiting
P362+P364: Take off contaminated clothing and wash it before reuse.
P370+P378: In case of fire, use dry sand, dry chemical or alcohol-resistant foam to extinguish
P391: Collect spillage
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed
P501: Dispose of contents/container in accordance with local/regional/national /international regulations.
Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.
All essential oils are highly concentrated so have strong aromas and colour that can stain. Marjoram Oil contains over 11% Hydrocarbons (49%). Emergency treatment for those who accidentally swallow oils in this category is to seek medical attention immediately and transport sitting in a half-upright position.

3: COMPOSITION/INFORMATION ON INGREDIENTS

21% Terpinen-4-ol

CAS NUMBER: 562-74-3

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 209-235-5

Acute Tox. 4, H302

Skin Irrit. 2, H315

Skin Sens. 1, H317

Eye Irrit. 2, H319

STOT SE 3, H336 (CNS)

15.5% Linalool

CAS NUMBER: 78-70-6

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 201-134-4

Skin irrit. 2, H315

Skin Sens. 1B, H317

Eye Irrit. 2, H319

15.5% cis-Sabinene Hydrate

CAS NUMBER: 546-79-2

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 208-911-7

Not classified.

14% γ -Terpinene

CAS NUMBER: 99-85-4

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 202-794-6

Flam. Liq. 3, H226

Repr. 2, H361

Aquatic Chronic 2, H411

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

4: FIRST AID MEASURES

INHALATION:	Remove from exposure site to fresh air and keep at rest. Obtain medical advice.
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 and consult a doctor. Seek medical attention immediately, showing the label. If swallowed accidentally, do not allow to drink, do not induce vomiting and transfer to hospital immediately by ambulance. Show the label to the doctor.
SKIN CONTACT:	Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised 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.
EYE CONTACT:	Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open. If there is any redness, pain or visual impairment, consult an ophthalmologist.
GENERAL INFORMATION:	Take Risk and Safety phrases (section 2) into account. In case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing by an unconscious person.
NOTES FOR THE DOCTOR:	Use personal protective equipment as described in section 8 if substance is present

5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA RECOMMENDED:	Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.
UNSUITABLE EXTINGUISHING MEDIA:	Do not use water jet.
ADVICE FOR FIREFIGHTERS:	FLAMMABLE. KEEP PACKAGES NEAR THE FIRE COOL, TO PREVENT PRESSURISED CONTAINERS FROM BURSTING. PREVENT THE EFFLUENT OF FIRE-FIGHTING MEASURES FROM ENTERING DRAINS OR WATERWAYS. AVOID INHALATION OF SMOKE AND FUMES. IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT. FIRE-FIGHTERS SHOULD WEAR APPROPRIATE PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS.
EMERGENCY ACTION CODE:	3[Y] (Foam + BA & Fire Kit)

6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

For non-first aid worker: avoid any contact with the skin and eyes. For first aid worker: first aid workers will be equipped with suitable personal protective equipment (See section 8).

ENVIRONMENT 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. If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures. Use drums to dispose of collected waste in compliance with current regulations (see section 13).

CLEANING UP METHODS FOR SPILLAGES:

Clean preferably with a detergent, do not use solvents.

7: HANDLING AND STORAGE

USAGE PRECAUTIONS:

Individuals with a history of skin sensitisation should not, under any circumstance, handle this substance. Always wash hands after handling. Remove and wash contaminated clothing before re-using. Remove contaminated clothing and protective equipment before entering eating areas. Handle in well-ventilated areas. Never inhale this substance. Prevent the accumulation of electrostatic charges with connections to earth. Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected. Keep packages tightly closed and away from sources of heat, sparks and naked flames. Do not use tools which may produce sparks. Do not smoke. Prevent access by unauthorised personnel. Observe precautions stated on label and also industrial safety regulations. Avoid skin and eye contact with this substance.

Recommended equipment and procedures: For personal protection, see section 8.

Prohibited equipment and procedures: No smoking, eating or drinking in areas where the substance is used. Never open the packages under pressure.

OCCUPATIONAL HYGIENE:

Keep away from food and drink, including those for animals. Keep away from all sources of ignition - do not smoke. Keep well away from all sources of ignition, heat and direct sunlight. Avoid accumulation of electrostatic charges. Containers should be stored tightly sealed in a dry place. The floor must be impermeable and form a collecting basin so in case of accidental spillage, the liquid cannot spread beyond. Always keep in packaging made of an identical material to the original.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:



APPROPRIATE ENGINEERING CONTROLS:

Where appropriate, use closed systems to transfer and process this material. If appropriate, isolate mixing rooms and other areas where this material is used or openly handled. Maintain these areas under negative air pressure relative to the rest of the plant. Avoid contact with eyes. Use eye protectors designed to protect against liquid splashes. Before handling, wear safety goggles with protective sides accordance with standard EN166. In the event of high danger, protect the face with a face shield. Prescription glasses are not considered as protection. Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours. Provide eyewash stations in facilities where the product is handled constantly.

EYE/FACE PROTECTION:

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

OTHER SKIN AND 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.

HYGIENE MEASURES:

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.

RESPIRATORY PROTECTION: No respiratory protection is required during normal operations in a workplace where engineering controls such as adequate ventilation, etc. are sufficient.

ENVIRONMENTAL EXPOSURE CONTROLS:

9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Mobile liquid
COLOUR: Pale yellow to yellow-green
ODOUR: Characteristic spicy note of a crushed herb
FLASH POINT °C: 57
SPECIFIC GRAVITY @ 25°C: 0.887 – 0.910
REFRACTIVE INDEX @ 25°C: 1.468 – 1.480
SOLUBILITY: Water solubility of 16 components (covering more than 89% of the composition of the substance) between 0.000691 and 499 mg/L each at 25°C
BOILING POINT °C: 186.1
VAPOUR PRESSURE: Of individual constituents is between 7.58 and 372 Pa at 25°C
FREEZING POINT °C: < -20
BOILING POINT RANGE: Not determined

10: STABILITY AND REACTIVITY

REACTIVITY: No data from specific reactivity tests are available for this substance.
CHEMICAL STABILITY: This substance is stable under the recommended handling and storage
POSSIBILITY OF HAZARDOUS REACTIONS: No hazardous reactions known.
CONDITIONS TO AVOID: Accumulation of electrostatic charges; heating; heat; flames and hot surfaces.
INCOMPATIBLE MATERIALS: Avoid contact with strong acids, alkali or oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may release/form carbon monoxide (CO) and carbon dioxide (CO₂).

11: TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS:

- ORAL: LD50 (rat) > 5000 mg/kg bw. GHS criteria not met.
- EYE: Category 2 (irritating to eyes) based on GHS criteria.
- INHALATION: Not determined.
- SKIN: Not determined.
- SKIN IRRITATION: Category 2 (irritant) based on GHS criteria.
- SKIN SENSITIVITY: Category 1B (indication of skin sensitising potential) based on GHS criteria.
- MUTAGENICITY: Not mutagenic (reverse gene mutation assay OECD test guideline No. 471).
- FERTILITY/REPRODUCTION: Not determined.

12: ECOLOGICAL INFORMATION

TOXICITY:

- FISH: Not determined
- ALGAE: EC50/LC50 = 6.8 mg/L (iSafeRat mixture toxicity calculation)
- DAPHNIA: 48h EL50 = 5.8 mg/L (iSafeRat mixture toxicity calculation)
- MICROORGANISMS: Not determined
- PLANTS: Not determined

PERSISTENCE AND DEGRADABILITY: Not readily biodegradable.

BIOACCUMULATIVE POTENTIAL: Not determined

MOBILITY IN SOIL: Not determined

RESULTS OF PBT AND VPVB ASSESSMENT: Not determined

PRECAUTIONS: Not determined

13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:

Proper waste management of the substance and/or its container must be determined in accordance with Directive 2008/98/EC. Do not pour into drains or waterways.

Waste: Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste, do not dispose of waste into the environment. Soiled packaging: Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.

Waste is suitable for incineration.

SPECIAL PRECAUTIONS FOR LANDFILL AND INCINERATION:

14: TRANSPORT INFORMATION

UN No.:

UN1169

PROPER SHIPPING NAME:

Extracts Aromatic Liquids (N.O.S)

TRANSPORT HAZARD CLASS(ES):

3

PACKING GROUP:

III

ENVIRONMENTAL HAZARDS:

This is an environmentally hazardous substance.



TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE: -

15: REGULATORY INFORMATION

STATUTORY INSTRUMENTS:

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716)

16: OTHER INFORMATION

Q.C. REQUIREMENTS.

In-line with general product specification. Always satisfy suitability for specific application.

Retest after 6 months.

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its' correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.