

Material Safety Data Sheet / MSDS (I907/2006/EC Article 31)

MANDARINE ORGANIC ESSENTIAL OIL

VERSION I: 20.9.2024

SECTION 01:

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

1.1 PRODUCT IDENTIFIER

ORIGIN:	Italy
PRODUCT'S NAME:	Mandarine organic essential oil
INCI NAME:	Citrus Reticulata Peel Oil
BOTANICAL NAME:	Citrus Reticulata Blanco
CAS Number:	8008-31-9
EC Number:	616-920-6
EINECS Number:	284-521-0

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Application of the substance:

- Flavouring agent
- Cosmetic ingredient
- Aromatherapy use

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

SUPPLIER:	BOHDEI d.o.o.
ADDRESS:	Pavlova vas 66 8255 Pisece Slovenia, EU
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TELEPHONE:	+386 70 184 666

1.4 EMERGENCY TELEPHONE NUMBER

+386 70 184 666

SECTION 02:**HAZARDS IDENTIFICATION****2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE** (Classification according to Regulation (EC) No 1272/2008)

Flammable liquid, category 3, H226
 Aspiration Hazard, category I, H304
 Skin irritation/corrosion, category 2, H315
 Skin sensitization, category I, H317
 Aquatic Acute hazard, category I, H400
 Aquatic Chronic hazard, category I, H411

2.2 LABEL ELEMENTS (Labelling according to Regulation (EC) No 1272/2008)**Pictograms:**

			
GHS02	GHS08	GHS07	GHS09

Signal word: Danger**Hazard statement:**

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.
 H400 Very toxic to aquatic life.
 H411 Toxic to aquatic life with long-lasting effects.

Precautionary statements:

P210 Keep away from heat, sparks, open flames and hot surface. No smoking.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.
 P241 Use explosion-proof electrical/ventilating/light equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 Wash hands and other contacted skin thoroughly after handling.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/clothing, eye/face protection.
 P301/310 IF SWALLOWED: immediately call a POISON CENTER or doctor/physician.
 P303/361/353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing . Rinse skin with water/shower.
 P331 Do NOT induce vomiting.
 P333/313 If skin irritation or a rash occurs: Get medical /attention.
 P362 Take off contaminated clothing and wash before reuse.
 P370/378 In case of fire: Use carbon dioxide, dry chemical, foam for extinction.
 P391 Collect spillage.
 P403/235 Store in well ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/container to approved disposal site, in accordance with local regulations.

2.3 OTHER HAZARDS

No data available.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

NCS (natural complex substance): 100% pure and natural essential oil

List of principal components:

Name of component	CAS Number	EC Number	% composition	Classification Regulation (EC) No 1272/2008
D-Limonene	5989-27-5	227-813-5	< 80	Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H411
Alpha-Pinene	80-56-8	201-291-9	< 3	Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304
Myrcene	123-35-3	204-622-5	< 2.5	Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Asp. Tox. 1 - H304
Decanal	112-31-2	203-957-4	< 0.5	Skin Irrit. 2 - H315, Aquatic Chronic 3 - H412
Linalool	78-70-6	201-134-4	< 0.5	Skin Irrit. 2 - H315

SECTION 04: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

General information:	Symptoms of poisoning may even occur after several hours, therefore medical observation for at least 48 hours after the accident. Seek immediate medical advice. Never give anything by mouth to an unconscious person. It is recommended that those who provide first aid have a personal protective equipment. No action shall be taken involving any personal risk or without suitable training.
After inhalation:	Supply fresh air. Do not administer anything orally. If unconscious, place them in a suitable position. Seek medical assistance.
After skin contact:	Remove contaminated clothing. Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
After eye contact:	Check for and remove any contact lenses. Rinse opened eyes for at least 10 minutes under running water while pulling eyelids up. Don't let the person to rub the affected eye. If symptoms persist, consult a doctor.
After swallowing:	Rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs, keep head down to prevent the passage of vomit into the lungs. Move exposed person to fresh air. If unconscious, place them in a suitable position. Seek medical assistance.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

May be fatal if swallowed and enters airways.
Causes skin irritation, can cause bloodshot eyes.
May cause an allergic skin reaction.
For inhalation can cause slight headache.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Get medical attention if any discomfort is felt, and bring these instructions.

SECTION 05: FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable extinguishing agents:
CO₂, sand, foam, extinguishing powder.

Unsuitable extinguishing agents:
Water with full jet or fog (spray).

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Vapour may form an explosive mixture with air. In case of fire, Carbon monoxide, Carbon dioxide, smoke and soot may be liberated.

5.3 ADVICE FOR FIREFIGHTERS

Standard procedure for chemical fires.
Spray extinguishing media to base of flames.

Fire precautions:
Evacuate the area.
Container may explode in the heat of a fire.
Cool endangered receptacles with water spray. Take wind direction into account.
Move undamaged containers from immediate hazard area if it can be done safely.

Protective equipment:
Do not intervene without suitable protective equipment.
Use full face, self-contained breathing apparatus.
Full body protection.

SECTION 06: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

For first aiders:
Wear protective equipment.
Ensure adequate ventilation.
Plug the leak if it is safe to do so.
Keep away from ignition sources.
Keep unprotected persons away.

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For non-rescuers:

Ventilate the spill area.
Avoid contact with skin and eyes.
Avoid inhalation of gases, vapours or smoke.
Do not smoke.

6.2 ENVIRONMENTAL PRECAUTIONS

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 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Dispose contaminated material as waste according to item I3.
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 REFERENCE TO OTHER SECTIONS

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

**SECTION 07:
HANDLING AND STORAGE****7.1 PRECAUTIONS FOR SAFE HANDLING****Individual precautions**

Apply good manufacturing practice and industrial hygiene practices.
Do not eat, drink or smoke while handling.
Avoid contact with skin and eyes.
Do not inhale the vapors, do not swallow.
Prevent access to persons not required.
Wear personal protective equipment.
Wash your hands after any manipulation.
Contaminated work clothes should not leave the workplace.

Packaging precautions

Store in original container or other container approved alternative made from a compatible material.
Keep receptacles tightly sealed when not in use.
Avoid spills.
Empty containers retain residue product.
Keep away from heat, sparks, open flame and direct sunlight.
Do not use tools that can cause sparks.
Avoid exposing to high temperatures during processing.
Handle with care. Avoid jolting, friction and impact.

Working area protection

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Protect against electrostatic charges.
Electrical equipment has to be protected according to applicable standards.
Avoid release to the environment.
Use appropriate container to avoid environmental contamination.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**Storage requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

Use only receptacles specifically permitted for this substance/ product. Avoid PVC.

Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

Keep container tightly sealed.

Store the containers between 5 and 25° C in a dry and dark place.

Protect from heat and direct sunlight.

Do not smoke near the product.

Store receptacle in a well ventilated area.

Keep away from oxidising agents and from highly acidic or alkaline materials.

Information about storage in one common storage facility:

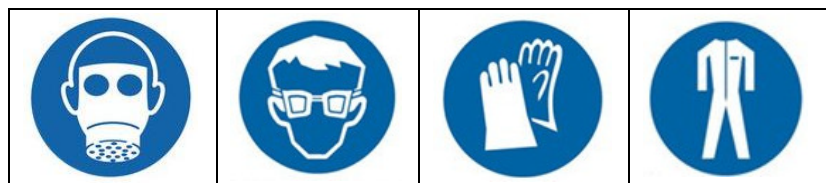
Not required.

7.3 SPECIFIC END USE(S)

No data available.

SECTION 08:**EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 CONTROL PARAMETERS****Ingredients with limit values that require monitoring at the workplace:**

Not required.

8.2 EXPOSURE CONTROLS

General protective and hygienic measures:	The usual precautionary measures are to be adhered to when handling chemicals. Ensure good ventilation of the working area. Provide eyewash station. Avoid static discharges in working area. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Do not inhale dust / smoke / mist. Avoid contact with the skin. Avoid contact with the eyes.
Respiratory protection:	Avoid breathing vapors. Use suitable respiratory protective device in case of insufficient ventilation. Wear full face mask supplied with gas cartridge suitable for organic substances (Filter A2 type).
Protection of hands:	Avoid skin contact. Wear suitable protective gloves resistant to chemical agents in accordance with standard EN374. The glove material has to be impermeable and resistant to the product / the substance / the preparation. Type of gloves recommended Nitrile rubber or PVA (Polyvinyl alcohol).
Skin protection:	Wear apron or protective clothing in case of splashes.
Eye/face protection:	Avoid contact with eyes. Wear approved safety goggles with built in frame tested to EN166.

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Body protection:	Impervious protective clothing. Boots.
Environmental exposure control:	Avoid release into the environment.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION	
PHYSICAL STATE:	Liquid
COLOUR:	Red
ODOUR:	Sweet, citrusy, delicious
ODOUR THRESHOLD:	Not determined
BOILING POINT OR INITIAL BOILING POINT AND BOILING RANGE:	178.00°C at 760.00 mmHg
FLAMMABILITY:	Not determined
LOWER AND UPPER EXPLOSION LIMIT:	Not determined
FLASH POINT:	49°C
DECOMPOSITION TEMPERATURE:	Not determined
PH:	Not applicable
VISCOSITY:	Not determined
DYNAMIC:	Not determined
SOLUBILITY WATER:	Not soluble
PARTITION COEFFICIENT N-OCTANOL/WATER (LOG VALUE)	Not determined
VAPOUR PRESSURE:	0.95 mm/Hg at 25.00°C
VAPOUR DENSITY:	> 1
RELATIVE DENSITY:	Not determined.
EVAPORATION RATE:	vs H ₂ O < 1

9.2 OTHER INFORMATION

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

Stable under recommended storage conditions.

10.2 CHEMICAL STABILITY

Stable under recommended storage conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Not expected under normal temperature conditions and recommended use.

10.4 CONDITIONS TO AVOID

Excessive heat, flames.

10.5 INCOMPATIBLE MATERIALS

Acids, Alkalis, oxidising agents.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Not expected under normal temperature conditions and recommended use.

SECTION II:**TOXICOLOGICAL INFORMATION****II.1 INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008****LD/LC50 values relevant for classification:**

Acute Dermal Toxicity: LD50 [Rat] >2000 mg/kg

Acute Oral Toxicity: LD50 [Rat] >5000 mg/kg

Acute Inhalation: LD50 [Rat] >5000 mg/kg

Primary irritant effect:

Skin Corrosion/irritation: Causes skin irritation (H315)

Serious eye damages/irritation: Not classified as irritating today (source CSR)

Respiratory or skin sensitisation: May cause an allergic skin reaction (H317)

Germ cell mutagenicity:

Negative (sources CSR).

Carcinogenicity:

No data available.

Reproductive toxicity:

Not tested (sources CSR).

STOT-single exposure:

No data available.

STOT-repeated exposure:

May be fatal if swallowed and enters airways (H304).

Aspiration hazard

No data available.

Photo-toxicity:

No data available.

II.2 INFORMATION ON OTHER HAZARDS

No data available.

SECTION I2:**ECOLOGICAL INFORMATION****I2.1 TOXICITY****Aquatic toxicity:**

The product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment. Do not leave the product, even diluted or in great quantity, penetrate the ground water, water or the drains.

12.2 PERSISTENCE AND DEGRADABILITY

To be considered as readily biodegradable based on its ready biodegradability. Oil does not fulfil the criteria for persistence.

12.3 BIOACCUMULATIVE POTENTIAL

H411 Toxic to aquatic life with long-lasting effects.

12.4 MOBILITY IN SOIL

Considered as a readily biodegradable NCS. Based on the ready biodegradability of the NCS, simulation tests in surface water, sediment and soil are not required in accordance with column 2 of REACH Annex IX.

12.5 RESULTS OF PBT AND VPVB ASSESSMENT

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 ENDOCRINE DISRUPTING PROPERTIES

No data available.

12.7 OTHER ADVERSE EFFECTS

Do not discharge into the environment especially not into waterways, sewers and the sea.

Ecotoxicological effects:

Not determined.

Additional ecological information:

Not determined.

SECTION 13:

Disposal considerations

13.1 WASTE TREATMENT METHODS

Recommendation:

Must be specially treated adhering to official regulations.

Uncleaned packaging:

Disposal must be made according to official regulations.

SECTION 14:

TRANSPORT INFORMATION

Land: Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions.

Sea: Transport by ship: IMDG.

Transport documentation: Bill of lading.

Air: Transport by plane: ICAO/IATA.

Transport document: Airway bill.

14.1 UN NUMBER OR ID NUMBER

ADR/ADN/RID: UN 1197

IMDG: UN 1197

ICAO/IATA: UN 1197

14.2 UN PROPER SHIPPING NAME

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ADR/ADN/RID: EXTRACTS, AROMATIC, LIQUID

IMDG: EXTRACTS, AROMATIC, LIQUID

ICAO/IATA: EXTRACTS, AROMATIC, LIQUID

I4.3 TRANSPORT HAZARD CLASS(ES)

ADR/ADN/RID: 3 Flammable liquid

IMDG: 3 Flammable liquid

ICAO/IATA: 3 Flammable liquid

**I4.4 PACKING GROUP**

ADR/ADN/RID: III

IMDG: III

ICAO/IATA: III

I4.5 ENVIRONMENTAL HAZARDS

Marine pollutant(s): Yes

**I4.6 SPECIAL PRECAUTIONS FOR USER**

This product contains flammables and is dangerous for the environment. In case on pouring out, make sure to label new packaging accordingly, reproducing original label with relevant symbols.

I4.7 MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS

No data available.

I4.8 ADDITIONAL INFORMATION

Customs Code : 3301

SECTION I5:**REGULATORY INFORMATION****I5.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE****Statutory Instruments:**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Guidance Notes:

Workplace Exposure Limits EH40. CHIP for everyone HSG(I08).

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EU Legislation:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2 CHEMICAL SAFETY ASSESSMENT

No data available.

SECTION 16:**OTHER INFORMATION**

The information in this safety data sheet is based on the state of our knowledge at the date indicated. The information in this sheet must be regarded as a description of the safety requirements for the product, they are not to be considered a warranty or quality specification and have no contractual value on properties and application areas thereof. The information contained in this safety data sheet relate to the specific material designated and may not be valid with respect to the product associated with another product or process, unless it is specified in the text of this document.

The required information complies with EU regulations in force. It does not exempt the user from knowing and applying all the national regulations in force.

Relevant phrases:

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.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long-lasting effects.

Training hints:

Minimum training in occupational risk prevention is recommended for personnel who will handle this product, in the purpose of facilitating the understanding and interpretation of this form of safety data in the same way as the labeling of the product.

Abbreviations and acronyms:

IFRA: International Fragrance Association
IOFI: International Organization of the Flavor Industry
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

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Sources:

IFRA/IOFI Labelling Manual, REACH registration dossier, supplier information