

SAFETY DATA SHEET (SDS)

(According to Regulation (EC) No. 2015/830)

According to Regulation (EC) No 1907/2006, modified by the Commission Regulation (EU) 2020/878

Essential Oil: Orange, Sweet

SDS Created: 10, June 2025

Revision Date: 10, June 2026

CHAPTER 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

1.1 Globally Harmonized System (GHS) product identifier

Product name: Orange, Sweet organic

Latin name of botanical source: *Citrus sinensis*

INCI Name: Citrus Sinensis Peel Oil Expressed

1.2 Recommended use of the chemical and restrictions on use:

Aromatherapy, natural perfumery, as recommended. Do not ingest.

1.3 Supplier's details:

Company name: BIORUŽA s.r.o.

Company address: Laborecká 1, 01001 Žilina, Slovakia

Company contact:

00421 905 864 140

info@bioruza.sk

www.bioruza.sk

1.4 Emergency telephone number:

National Toxicology Information Center: Phone: 02/54774166

CHAPTER 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture

Skin Corrosion/Irritation,

Category 2Skin Sensitization,

Category 1B Aspiration Hazard,

Category 1

Hazardous to aquatic environment Long term/Chronic, Category 2

2.2 GHS label elements, including precautionary statements

Signal Word	Hazardous Statement	Precautionary Statement	Hazard Pictograms
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Danger	H315 – Causes skin irritation H317 – May cause allergic skinreaction H304 – May be fatal if swallowed andenters airways H411 – Toxic to aquatic life with longlasting effects	P210 – Keep away from flames and hot surfaces. Nosmoking. P233 – Keep container tightly closed. P240 – Ground/Bond container and receiving equipment. P241 – Use explosion-proof electrical/ventilating/lightingequipment. P242 – Use only non-sparking tools. P243 – Take precautionary measures against staticdischarge. P280 – Wear protective gloves/eye protection/faceprotection. P303 + P361 + P353 – IF ON SKIN (or hair): Take off	
		immediately all contaminated clothing. Rinse skin withwater/shower. P370 + P378 – In case of fire: Use dry sand, dry chemical,or alcohol-resistant foam for extinction. P403 + P235 – Store in well-ventilated place. Keep cool.P501 – Dispose of contents/container to an approved waste disposal plant. P264 –Wash hands thoroughly after handling.P261 –Avoid breathing dust/fume/gas/mist/vapours/spray. P272 –Contaminated work clothing should not beallowed out of the workplace. P333 + P313 –If skin irritation or rash occurs: Get medicaladvice/attention. P301 + P310 – IF SWALLOWED: Immediately call aPOISON CENTER/doctor/physician. P331 – Do NOT induce vomiting.P405 – Store locked up. P273 – Avoid release to the environment. P391 – Collect spillage.	

2.3 Other hazards that do not result in classification

Known photosensitizer. Remove contaminated clothing, wash skin thoroughly with soap and water. Avoid exposure to sun if orange oil has beenapplied to skin in pure or diluted amounts.

CHAPTER 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Composition

Chemical Name (common name)	CAS#	CAS #EINECS	ICSC #	RTECS#	UN#	EINECS#	% by weight
Citrus Sinensis Peel Oil Expressed	8028-48-6	97766-30-8	N/A	RI8600000	N/A	232-433-8	100%
EU Allergens:							
Citrus Sinensis Peel Oil	8028-48-6	N/A	N/A	N/A	N/A	N/A	100 %
Beta-Caryophyllene	87-44-5	N/A	N/A	N/A	N/A	N/A	≤ 0.02%
Carvone	99-49-0	N/A	N/A	N/A	N/A	N/A	≤ 0.01%
Citral (Geranial + Neral)	5392-40-5	N/A	N/A	N/A	N/A	N/A	≤ 0.30%
Citronellol	106-22-9	N/A	N/A	N/A	N/A	N/A	≤ 0.01%
Limonene	138-86-3	N/A	N/A	N/A	N/A	N/A	≤ 96%
Linalool	78-70-6	N/A	N/A	N/A	N/A	N/A	≤ 0.70%
Pinenes	80-56-8/ 7785-70-8/ 127-91-3/ 18172-67-3	N/A	N/A	N/A	N/A	N/A	≤ 0.95%
Terpineol	8000-41-7	N/A	N/A	N/A	N/A	N/A	≤ 0.04%

Terpinolene	586-62-9	N/A	N/A	N/A	N/A	N/A	≤ 0.02%
Prop 65:							
Myrcene	123-35-3	N/A	N/A	N/A	N/A	N/A	1-4 %

CHAPTER 4: FIRST-AID MEASURES

4.1 Description of necessary first-aid measures (of Substance)

Eye contact:

Check for and remove any contact lenses. Flush with water for 15 minutes. If symptoms persist get medical attention.

Skin Contact:

Remove contaminated clothing and wash the skin thoroughly with soap and water. 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 a hospital.

Inhalation:

Not likely to occur under normal conditions of use. If symptoms occur, move to fresh air and obtain medical advice.

Ingestion:

Not an expected route of exposure. In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with milk or water and consult a doctor. Keep the exposed person at rest. Do NOT force vomiting unless directed to do so by medical personnel. Seek immediate medical attention and show the Substance's label to medical personnel.

4.2 Most important symptoms and effects, both acute and delayed (of Substance)

Eye contact:

May cause eye irritation and corneal damage if not immediately rinsed out.

Skin Contact:

Known photosensitizer.

Inhalation:

Breathing high concentrations of vapor may cause anesthetic effects.

Ingestion:

Not an expected route of exposure.

4.3 Indication of any immediate medical attention and special treatment needed (of Substance)

None known.

CHAPTER 5: FIRE-FIGHTING MEASURES

5.1 Flash point

+70°C

5.2 Extinguishing media

Suitable extinguishing media: sprayed water or water mist, alcohol-resistant foam, multipurpose ABC powder, BC powder, carbon dioxide (CO₂)

Unsuitable extinguishing media: water jet (straight stream).

5.3 Specific hazards arising from the chemical

None known.

5.4 Special protective actions for firefighters

Use self-contained breathing apparatus and protective clothing.

CHAPTER 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Stop leak if you can do so without risk. Consult safety measures listed under CHAPTERS 7 and 8.

For fire-fighters:

Fire-fighters will be equipped with suitable personal protective equipment (See CHAPTER 8). High temperature may increase the pressure inside the container—cool the container by sprinkling water. Avoid breathing emitted vapors.

6.2 Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, or diatomaceous earth in drums for waste disposal. Avoid allowing product to reach sewage system or any waterways. Inform respective authorities in case of seepage into sewage system or waterways.

6.3 Methods and material for containment and cleaning up

Absorb spill with non-combustible matter (such as detergent--do not use solvents) and transfer to containers.

CHAPTER 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid unintentional contact with skin surfaces. Wear suitable protective clothing. Avoid inhalation. Ensure good ventilation or exhaust in workplace. Do not allow contact with eyes. Always wash hands after handling. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in closed glass containers, away from heat, light and other sources of ignition. Store in cool area.

CHAPTER 8: EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

OSHA TWA: None

established OSHA STEL:

None established

ACGIH TWA: None

established ACGIH STEL:

None established NOHSC

TWA: None established

NOHSC STEL: None

established

8.2 Appropriate engineering controls

General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.

8.3 Individual protection

measures
Personal protective equipment:

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.

Eye/face protection:

Avoid contact with eyes. Use eye protectors (safety goggles in accordance with standard EN166) designed to protect against liquid splashes.

Hand protection:

Wear suitable protective gloves (resistant to chemical agents in accordance with standard EN374) in the event of prolonged or repeated skin contact.

Type of gloves recommended: Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR)) or PVA (Polyvinyl alcohol).

Body protection: 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.



CHAPTER 9: PHYSICAL CHEMICAL PROPERTIES

Physical state: Transparent liquid

Color: Pale yellow to orange

Odor: Sweet, fresh, citrus

Water solubility: Insoluble

Miscibility in water: Insoluble

Miscibility in alcohol: Soluble

Miscibility in essential oil: Soluble

Liposolubility: Soluble

pH: Not applicable

Boiling point/boiling range: 176°C

Flash Point: +70°C

Vapor pressure: 175 – 300 kPa

Evaporation rate: Not specified

Density: Not specified

Self-ignition temperature: Not specified

Decomposition point/decomposition

range: Not specified

Refractive index @ 20°C: 1.468 – 1.478

Partition coefficient: Not specified

Specific gravity @ 25 °C: 0.840 – 0.852

CHAPTER 10: STABILITY AND REACTIVITY

10.1 Reactivity

Not reactive.

10.2 Chemical stability

This substance is stable under the recommended handling and storage conditions in CHAPTER 7.

10.3 Possibility of hazardous reactions

When exposed to high temperatures, the substance may release hazardous decomposition products, such as carbon monoxide, carbon dioxide, fumes, and nitrogen oxide.

10.4. Conditions to avoid

None known.

10.5 Incompatible materials

Alkali metals, ammonia, oxidizing agents, peroxides strong inorganic acids.

10.6 Hazardous decomposition products

The thermal decomposition may release/form carbon monoxide (CO) and carbon dioxide (CO₂).

CHAPTER 11: TOXICOLOGICAL INFORMATION

11.1 Substance Acute toxicity:

Decanal - Oral route: DL50 = 3750 mg/kg

Skin corrosion/irritation:

May be irritating to skin.

Serious eye damage/irritation:

May be irritating to eyes. Prompt rinsing and removal of the substance will avoid damage.

Respiratory sensitization:

Breathing high concentrations of vapor may cause anesthetic effects.

Germ cell mutagenicity:

Not specified

Carcinogenicity:

IARH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity:

Not specified

STOT-single exposure:

Not specified

STOT-related exposure:

Not specified

Aspiration hazard:

Not specified

11.2 Information on the likely routes of exposure

Skin/scalp contact.

11.3 Symptoms related to the physical, chemical, and toxicological characteristics

None known. Irritation of the eye if exposed. Redness of the skin if irritated.

11.4 Delayed and immediate effects and also chronic effects from short-term and long-term exposure

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.

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.

11.6 Interactive effects

Not specified

11.7 Where specific chemical data are not available

Not specified

11.8 Substances

Not specified

11.9 Substances versus ingredient information

Not specified

11.10 Other Information

Not specified

CHAPTER 12: ECOLOGICAL INFORMATION

12.1 Info summary of Ecological information

Balance of data on substance as a whole, not determined.

12.2 Eco toxicological properties of specific substances

See each category below for specific substances

12.3 Toxicity Acute fish toxicity:

LC50 / 96 HOUR – No data available

Toxicity to aquatic plants – No data

available Toxicity to microorganisms –

No data available Toxicity threshold – No

data available

12.4 Persistence and degradability

Biodegradation is expected

12.5 Bio-accumulative potential

Bioaccumulation is unlikely

12.6 Mobility in soil

Unknown

12.7 Other adverse effect

Avoid exposure to marine environments and waterways

CHAPTER 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not pour into drains or waterways. Observe all federal, state, and local environmental regulations. Member State-specific and Community-specific provisions must be considered. Considering the relevant known environmental and human health hazards of the materials, review and implement appropriate technical and procedural wastewater and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental release. This may include destructive techniques for waste and wastewater. In extreme situations, contact a licensed professional waste disposal service to dispose of this material.

Waste:

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 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.

Soiled packaging:

Empty all containers completely. Keep label(s) on every container. Give to a certified disposal contractor.

CHAPTER 14: TRANSPORT INFORMATION

UN Number

N/A

14.1 UN Proper shipping name

N/A

14.2 Transportation hazard classes

Road (U.S. DOT): Not

regulated

Air (IATA): Not

regulated

Sea (IMDG): Not regulated

14.3 Packing group, if applicable

N/A

14.4 Environmental hazards



Environmentally hazardous material

14.5 Special precautions for user

Not specified

14.6 Transport in bulk according to Annex II of MARPOL 73/78° and IBC Code

Not applicable

14.7 Additional transport information

Not specified

CHAPTER 15: REGULATORY INFORMATION

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

Country	Notification
EU	See EU Allergens in CHAPTER 3

CHAPTER 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.