

SAFETY DATA SHEET

Citrus Orange Essential Oil

01. IDENTIFICATION

Supplier:
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02. HAZARD IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

Aspiration toxicity	Category 1 - (H304)
Skin corrosion/irritation	Category 2 - (H315)
Skin sensitization	Category 1 - (H317)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)
Flammable liquids	Category 3 - (H226)

CLASSIFICATION ACCORDING TO DIRECTIVE 67/548/EEC OR 1999/45/EC:

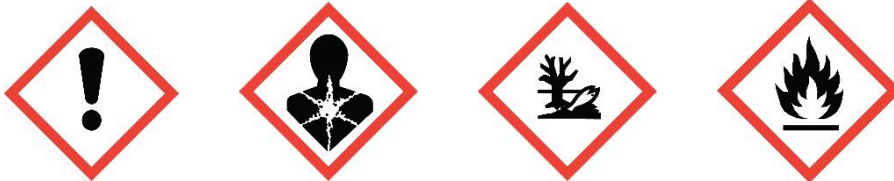
Full text of R-phrases: see section 16

HAZARD SYMBOLS:

FA – Flammable
N – Dangerous for the environment
R10, R38, R43, R50/53, R65

R-CODE(S):

LABEL ELEMENTS:



SIGNAL WORD:

HAZARD STATEMENTS:

Danger
H304 – May be fatal if swallowed and enters airways
H315 – Causes skin irritation
H317 – May cause an allergic skin reaction
H410 – Very toxic to aquatic life with long lasting effects
H226 – Flammable liquid and vapor
P280 – Wear eye protection/face protection
P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor
P331 – Do NOT induce vomiting
P210 – Keep away from heat/sparks/open flames/hot surfaces. No smoking.
No information available

PRECAUTIONARY STATEMENTS:

OTHER HAZARDS:

03. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No	CAS No	Weight - %	Classification according to Directive 67/548/EEC or 1999/45/EC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Limonene	227-813-5	5989-27-5	95-100	FL;R10 Xn;R65 Xi;R38 R43 N;R50/53;	Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Flam Liq. 3 (H226)	No data available
Myrcene	204-622-5	123-35-3	1-2.5	FL;R10 Xn;R65 Xi;R38	Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Flam Liq. 3 (H226)	No data available

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

04. FIRST AID MEASURES

INHALATION:
SKIN CONTACT:

Remove to fresh air
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.

EYE CONTACT:

Clean mouth with water. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

INGESTION:

Skin disorders. May cause an allergic skin reaction.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:
INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

NOTE TO DOCTORS: Treat symptomatically.

05. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water.

UNSUITABLE EXTINGUISHING MEDIA:
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

06. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Ensure adequate ventilation, especially in confined areas.

FOR EMERGENCY RESPONDERS:

Use personal protection recommended in Section 8.

ENVIRONMENTAL PRECAUTIONS:

See Section 12 for additional ecological information.

METHODS FOR CONTAINMENT:

Prevent further leakage or spillage if safe to do so.

METHODS FOR CLEANING UP:

Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal.

REFERENCE TO OTHER SECTIONS:

See Sections 8 & 13 for more information.

07. HANDLING & STORAGE

ADVICE ON SAFE HANDLING:

Ensure adequate ventilation, especially in confined areas. Use personal protection recommended in Section 8.

GENERAL HYGIENE CONSIDERATIONS:

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke.

STORAGE CONDITIONS:

Keep container tightly closed in a dry and well-ventilated place.

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Limonene 5989-27-5	-	-	TWA: 1000 mg/m ³ STEL: 1500 mg/m ³	-	TWA: 5 ppm TWA: 28 mg/m ³ H*
Myrcene 123-35-3	-	-	TWA: 1000 mg/m ³ STEL: 1500 mg/m ³	-	-
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Limonene 5989-27-5	-	-	-	TWA: 25 ppm TWA: 140 mg/m ³ STEL: 50 ppm STEL: 280 mg/m ³	-
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Limonene 5989-27-5	-	TWA: 7 ppm TWA: 40 mg/m ³ STEL: 14 ppm STEL: 80 mg/m ³	-	TWA: 25 ppm TWA: 140 mg/m ³ STEL: 25 ppm STEL: 140 mg/m ³	-

Myrcene 123-35-3	-	-	-	TWA: 40 ppm TWA: 275 mg/m ³ STEL: 40 ppm STEL: 275 mg/m ³	-
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DERIVED NO EFFECT LEVEL (DNEL):
PREDICTED NO EFFECT CONCENTRATION (PNEC):

No information available
No information available

EXPOSURE CONTROLS:

ENGINEERING CONTROLS:

Ensure adequate ventilation, especially in confined areas.

PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION:

Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

HAND PROTECTION:

Wear protective gloves.

SKIN AND BODY PROTECTION:

Wear suitable protective clothing.

RESPIRATORY PROTECTION:

None under normal use conditions.

GENERAL HYGIENE CONSIDERATIONS:

Regular cleaning of equipment, work area and clothing is recommended.

ENVIRONMENTAL EXPOSURE CONTROLS:

Do not allow into any sewer, on the ground or into any body of water. Local authorities should be advised if significant spillages cannot be contained.

09. PHYSICAL & CHEMICAL PROPERTIES

COLOR:

Yellow or orange

PHYSICAL STATE:

Liquid

ODOR:

Characteristic

ODOR THRESHOLD:

No information available

pH:

No information available

MELTING POINT/FREEZING POINT:

-74°C

BOILING POINT/BOILING RANGE:

176°C / 348.8°F

FLASH POINT:

43°C / 109.4°F

EVAPORATION RATE:

No information available

FLAMMABILITY (SOLID, GAS):

No information available

FLAMMABILITY LIMIT IN AIR:

UPPER FLAMMABILITY LIMIT:

No information available

LOWER FLAMMABILITY LIMIT:

No information available

VAPOR PRESSURE:

<3 mmHg @ 14°C

20 mmHg @ 68.2°C

4.70

VAPOR DENSITY:

SPECIFIC GRAVITY:

No information available

WATER SOLUBILITY:

No information available

SOLUBILITY(IES):

No information available

PARTITION COEFFICIENT:

No information available

AUTOIGNITION TEMPERATURE:

237°C

DECOMPOSITION TEMPERATURE: No information available
 KINEMATIC VISCOSITY: No information available
 DYNAMIC VISCOSITY: No information available
 EXPLOSIVE PROPERTIES: No information available
 OXIDIZING PROPERTIES: No information available
 SOFTENING POINT: No information available
 MOLECULAR WEIGHT: 136.23
 VOC CONTENT (%): No information available
 DENSITY: 0.848 @ 20°C
 BULK DENSITY: No information available

10. STABILITY & REACTIVITY

REACTIVITY: No data available
 CHEMICAL STABILITY: Stable under recommended storage conditions.
 POSSIBILITY OF HAZARDOUS REACTIONS: None under normal processing
 CONDITIONS TO AVOID: Heat, flames and sparks. Exposure to air or moisture over prolonged periods.
 INCOMPATIBLE MATERIALS: No information available
 HAZARDOUS DECOMPOSITION PRODUCTS: None under normal use conditions

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

INHALATION: No known effect
 EYE CONTACT: No known effect
 SKIN CONTACT: No known effect
 INGESTION: Potential for aspiration if swallowed

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Limonene		>5 g/kg (Rabbit)	
Myrcene	>5 g/kg (Rat)	>5 g/kg (Rabbit)	

UNKNOWN ACUTE TOXICITY:

ACUTE ORAL TOXICITY: 0% of the mixture consists of ingredient(s) of unknown acute oral toxicity
 ACUTE DERMAL TOXICITY: 0% of the mixture consists of ingredient(s) of unknown dermal toxicity
 ACUTE INHALATION TOXICITY – GAS: 0% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
 ACUTE INHALATION TOXICITY – VAPOR: 0% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
 ACUTE INHALATION TOXICITY – DUST/MIST: 0% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

SYMPTOMS:

Skin disorders. May cause an allergic skin reaction.

12. ECOLOGICAL INFORMATION

ECOTOXICITY: Harmful to aquatic life

0% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Limonene	-	0.619 – 0.796: 96 h Pimephales promelas mg/L LC50 flow-through 35: 96 h Oncorhynchus mykiss mg/L LC50	-

PERSISTENCE AND DEGRADABILITY: No information available
BIOACCUMULATIVE POTENTIAL: No information available
MOBILITY IN SOIL: No information available
RESULTS OF PBT AND vPvB ASSESSMENT: No information available
OTHER ADVERSE EFFECTS: No information available

13. DISPOSAL CONSIDERATIONS

WASTE FROM RESIDUES/UNUSED PRODUCTS: Disposal should be in accordance with applicable regional, national and local laws and regulations.
CONTAMINATED PACKAGING: Improper disposal or reuse of this container may be dangerous and illegal.

14. TRANSPORT INFORMATION

IMDG:

UN/ID NO: 1169
PROPER SHIPPING NAME: EXTRACTS, AROMATIC, LIQUID
HAZARD CLASS: 3
PACKING GROUP: III
MARINE POLLUTANT: This material meets the definition of a marine pollutant.
ENVIRONMENTAL HAZARD: Yes
SPECIAL PROVISIONS: None

ADR/RID:

UN/ID NO: 1169
PROPER SHIPPING NAME: EXTRACTS, AROMATIC, LIQUID
HAZARD CLASS: 3
PACKING GROUP: III
ENVIRONMENTAL HAZARD: Yes
SPECIAL PROVISIONS: None

IATA:

UN/ID NO: 1169
PROPER SHIPPING NAME: EXTRACTS, AROMATIC, LIQUID
HAZARD CLASS: 3
PACKING GROUP: III
ENVIRONMENTAL HAZARD: Yes
SPECIAL PROVISIONS: None

15. REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

Chemical Name	French RG Number	Title
Limonene 5989-27-5	RG 84	-

WATER HAZARD CLASS: Class 2

OZONE-DEPLETING SUBSTANCES
(ODS) REGULATION (EC) 1005/2009: Not applicable

INTERNATIONAL INVENTORIES:

TSCA: Complies
DSL/NDSL: Complies
EINECS/ELINCS: Complies
ENCS: Complies
IECSC: Complies
KECL: Complies
PICCS: Complies
AICS: Complies

LEGEND:

TSCA: United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS: European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS: Japan Existing and New Chemical Substances
IECSC: China Inventory of Existing Chemical Substances
KECL: Korean Existing and Evaluated Chemical Substances
PICCS: Philippines Inventory of Chemicals and Chemical Substances
AICS: Australian Inventory of Chemical Substances

CHEMICAL SAFETY ASSESSMENT: No information available

16. OTHER INFORMATION

Essential oils must be diluted prior to use. It is the sole responsibility of the user to determine the method and amount of dilution required for safe use, which may vary depending on the nature of the intended use. Keep away from children and pregnant women.

FULL TEXT OF R-PHRASES REFERRED TO UNDER SECTIONS 2 & 3:

R10: Flammable
R38: Irritating to skin
R43: May cause sensitization by skin contact
R65: Harmful: may cause lung damage if swallowed
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTION 3:

H304: May be fatal if swallowed and enters airways
H315: Causes skin irritation
H226: Flammable liquid and vapor

H317: May cause an allergic skin reaction
H400: Very toxic to aquatic life
H410: Very toxic to aquatic life with long lasting effects

LEGEND:

SVHC: Substances of Very High Concern for Authorization

LEGEND SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION:

TWA: TWA (time-weighted average)
STEL: STEL (Short Term Exposure Limit)
Ceiling: Maximum limit value
*: Skin designation

Revised on 12/10/2020

The information provided above is intended only as a guide to the appropriate precautionary handling of the material by properly trained personnel using this product. It is the responsibility of the customer and user to ensure it has in place provisions for the safe and proper handling of the material. Although TKB Trading LLC. believes the above information to be accurate based on the information available to TKB Trading LLC., it is the responsibility of the customer and user of the material to perform its own investigation and due diligence prior to use to verify that the product purchased from TKB Trading LLC. meets their quality requirements and is appropriate for the use to which the product is to be put. Use and purchase of this material is subject to TKB Trading LLC. standard terms and conditions, which supersede any conflicting terms contained on Buyer's purchase order or any document or instrument supplied by Buyer.