EarthOil
By Univar Solutions

SAFETY DATA SHEET
CITRUS AURANTIUM AMARA FLOWER EXTRACT

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name CITRUS AURANTIUM AMARA FLOWER EXTRACT

Product number 62447

Synonyms; trade names NEROLI OIL ORGANIC, NEROLI OIL

CAS number 72968-50-4

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses perfumery Food industry

1.3. Details of the supplier of the safety data sheet

Supplier

Univar
Aquarius House
6 Mid Point Business Park
Bradford
BD3 7AY
+44 1274 267300
+44 1274 267306
SDS.EMEA@univarsolutions.com

1.4. Emergency telephone number

Emergency telephone SGS - +32 (0)3 575 55 55 (24h)

Sds No. 62447

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 3 - H226

Health hazards Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304

Environmental hazards Aquatic Chronic 2 - H411

2.2. Label elements

Hazard pictograms

Signal word Danger

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Hazard statements	H226 Flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H304 May be fatal if swallowed and enters airways. 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. P273 Avoid release to the environment. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P302+P352 IF ON SKIN: Wash with plenty of water. P501 Dispose of contents/ container in accordance with national regulations.
Contains	LINALOOL, PIN-2-(10) ENE, (R)-P-MENTHA-1,8-DIENE, LINALYL ACETATE, GERANYL ACETATE, GERANIOL, MYRCENE, NERYL ACETATE, (2E,6E)-3,7,11-TRIMETHYLDODECA-2,6,10-TRIEN-1-OL, NEROL, CARYOPHYLLENE, p-MENTHA-1,4(8)-DIENE

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

LINALOOL **30-60%**

CAS number: 78-70-6 EC number: 201-134-4 REACH registration number: 01-2119474016-42-XXXX

Acute Toxicity Estimate (oral):
LD_{50} 2790 mg/kg, Oral, Rat
Acute Toxicity Estimate (dermal):
LD_{50} 5610 mg/kg, Dermal, Rabbit

Classification
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1B - H317

PIN-2-(10) ENE **10-30%**

CAS number: 127-91-3 EC number: 204-872-5

M factor (Acute) = 1 M factor (Chronic) = 1

Classification
Flam. Liq. 3 - H226
Skin Irrit. 2 - H315
Skin Sens. 1B - H317
Asp. Tox. 1 - H304
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

CITRUS AURANTIUM AMARA FLOWER EXTRACT

(R)-P-MENTHA-1,8-DIENE **10-30%**

CAS number: 5989-27-5 EC number: 227-813-5 REACH registration number: 01-2119529223-47-XXXX

M factor (Acute) = 1 M factor (Chronic) = 1

Classification
Flam. Liq. 3 - H226
Skin Irrit. 2 - H315
Skin Sens. 1 - H317
Asp. Tox. 1 - H304
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

LINALYL ACETATE **5-10%**

CAS number: 115-95-7 EC number: 204-116-4 REACH registration number: 01-2119454789-19-XXXX

Classification
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1 - H317

1-METHYL 4-ISO PROPYL-1-CYCLOHEXEN-8-OL **1-5%**

CAS number: 98-55-5 EC number: 202-680-6 REACH registration number: 01-2119980717-23-XXXX

Classification
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319

GERANYL ACETATE **1-5%**

CAS number: 105-87-3 EC number: 203-341-5 REACH registration number: 01-2119973480-35-XXXX

Classification
Skin Irrit. 2 - H315
Skin Sens. 1 - H317
Aquatic Chronic 3 - H412

GERANIOL **1-5%**

CAS number: 106-24-1 EC number: 203-377-1 REACH registration number: 01-2119552430-49-XXXX

Classification
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
Skin Sens. 1 - H317

CITRUS AURANTIUM AMARA FLOWER EXTRACT

MYRCENE **1-5%**

CAS number: 123-35-3 EC number: 204-622-5

Classification
Flam. Liq. 3 - H226
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Asp. Tox. 1 - H304

(E)-3,7,11-TRIMETHYLDODECA-1,6,10-TRIEN-3-OL **1-5%**

CAS number: 40716-66-3 EC number: 255-053-4

Classification
Aquatic Chronic 2 - H411

NERYL ACETATE **1-5%**

CAS number: 141-12-8 EC number: 205-459-2

Classification
Skin Irrit. 2 - H315
Skin Sens. 1B - H317
Aquatic Chronic 3 - H412

(2E,6E)-3,7,11-TRIMETHYLDODECA-2,6,10-TRIEN-1-OL **1-5%**

CAS number: 106-28-5 EC number: 679-283-3

Classification
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1B - H317

THUJ-4-(10)-ENE **1-5%**

CAS number: 3387-41-5 EC number: 222-212-4

Classification
Flam. Liq. 3 - H226

NEROL **1-5%**

CAS number: 106-25-2 EC number: 203-378-7

Classification
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
Skin Sens. 1B - H317

CITRUS AURANTIUM AMARA FLOWER EXTRACT

CITRUS AURANTIUM AMARA FLOWER EXTRACT **<1%**

CAS number: 72968-50-4

Classification
Flam. Liq. 3 - H226
Skin Irrit. 2 - H315
Skin Sens. 1 - H317
Asp. Tox. 1 - H304
Aquatic Chronic 2 - H411

CARYOPHYLLENE **<1%**

CAS number: 87-44-5 EC number: 201-746-1 REACH registration number: 01-2120745237-53-XXXX

Classification
Skin Sens. 1 - H317
Asp. Tox. 1 - H304
Aquatic Chronic 4 - H413

P-MENTH-1-EN-4-OL **<1%**

CAS number: 562-74-3 EC number: 209-235-5

Classification
Acute Tox. 4 - H302
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319

p-MENTHA-1,4(8)-DIENE **<1%**

CAS number: 586-62-9 EC number: 209-578-0 REACH registration number: 01-2119982324-34-XXXX

M factor (Acute) = 1 M factor (Chronic) = 1

Classification
Flam. Liq. 3 - H226
Skin Sens. 1B - H317
Asp. Tox. 1 - H304
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

P-MENTHA-1,4-DIENE **<1%**

CAS number: 99-85-4 EC number: 202-794-6

Classification
Flam. Liq. 3 - H226
Repr. 2 - H361d
Asp. Tox. 1 - H304

CITRUS AURANTIUM AMARA FLOWER EXTRACT

METHYL-2-AMINOBENZOATE **<1%**

CAS number: 134-20-3 EC number: 205-132-4

Classification
Eye Irrit. 2 - H319

P MENTHA 1(7) 2 DIENE **<1%**

CAS number: 555-10-2 EC number: 209-081-9

Classification
Flam. Liq. 3 - H226
Asp. Tox. 1 - H304

ALPHA-TERPINENE **<1%**

CAS number: 99-86-5 EC number: 202-795-1

Classification
Flam. Liq. 3 - H226
Acute Tox. 4 - H302
Asp. Tox. 1 - H304
Aquatic Chronic 2 - H411

INDOLE **<1%**

CAS number: 120-72-9 EC number: 204-420-7

Classification
Acute Tox. 4 - H302
Acute Tox. 3 - H311

PHENYLACETONITRILE **<1%**

CAS number: 140-29-4 EC number: 205-410-5

Classification
Acute Tox. 3 - H301
Acute Tox. 3 - H311
Acute Tox. 1 - H330

2-[(2S,5S)-5-ETHENYL-5-METHYLOXOLAN-2-YL]PROPAN-2-OL **<1%**

CAS number: 34995-77-2 EC number: 252-312-3

Classification
Acute Tox. 4 - H302
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319

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2-(TETRAHYDRO-5-METHYL-5-VINYL-2-FURYL)PROPAN-2-OL **<1%**

CAS number: 60047-17-8 EC number: 262-038-6

Classification
Acute Tox. 4 - H302
Eye Irrit. 2 - H319

(1E,6E)-1-METHYL-5-METHYLIDENE-8-PROPAN-2-YLCYCLODECA-1,6-DIENE **<1%**

CAS number: 23986-74-5

Classification
Acute Tox. 4 - H302
Asp. Tox. 1 - H304

(E)-7,11-DIMETHYL-3-METHYLENEDODECA-1,6,10-TRIENE **<0.1%**

CAS number: 18794-84-8 EC number: 242-582-0

Classification
Asp. Tox. 1 - H304

2,6,10-TRIMETHYLDODECA-2,6,9,11-TETRAENE **<0.1%**

CAS number: 502-61-4 EC number: 207-948-6

Classification
Asp. Tox. 1 - H304

PHENETHYL ACETATE **<0.1%**

CAS number: 103-45-7 EC number: 203-113-5

Classification
Eye Dam. 1 - H318

TRICOSANE **<0.1%**

CAS number: 638-67-5 EC number: 211-347-4

Classification
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1B - H317

CITRUS AURANTIUM AMARA FLOWER EXTRACT

p-MENTHA-1,5-DIENE **<0.1%**

CAS number: 99-83-2 EC number: 202-792-5

Classification
Flam. Liq. 3 - H226
Asp. Tox. 1 - H304

CAMPHENE **<0.1%**

CAS number: 79-92-5 EC number: 201-234-8

M factor (Acute) = 1 M factor (Chronic) = 1

Classification
Flam. Sol. 2 - H228
Eye Irrit. 2 - H319
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

5-ISOPROPYL-2-METHYLBICYCLO[3.1.0]HEX-2-ENE **<0.1%**

CAS number: 2867-05-2 EC number: 220-686-7

Classification
Flam. Liq. 3 - H226
Skin Sens. 1 - H317

4,8-DIMETHYLNONA-1,3,7-TRIENE **<0.1%**

CAS number: 51911-82-1 EC number: 257-509-8

Classification
Flam. Liq. 3 - H226
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
STOT SE 3 - H335
Aquatic Chronic 3 - H412

PARA CYMENE **<0.1%**

CAS number: 99-87-6 EC number: 202-796-7

Classification
Flam. Liq. 3 - H226
Acute Tox. 3 - H331
Repr. 2 - H361
Asp. Tox. 1 - H304
Aquatic Chronic 2 - H411

CITRUS AURANTIUM AMARA FLOWER EXTRACT

(E)-6,10-DIMETHYLUNDECA-5,9-DIEN-2-ONE **<0.1%**

CAS number: 3796-70-1 EC number: 223-269-8

Classification
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
STOT SE 3 - H335
Aquatic Chronic 2 - H411

(E)-3,7-DIMETHYLOCTA-2,6-DIENAL **<0.1%**

CAS number: 141-27-5 EC number: 205-476-5

Classification
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1B - H317

HEXAN-1-OL **<0.1%**

CAS number: 111-27-3 EC number: 203-852-3 REACH registration number: 01-2119487967-12-XXXX

Classification
Flam. Liq. 3 - H226
Acute Tox. 4 - H302
Acute Tox. 4 - H312
Eye Irrit. 2 - H319

6 METHYLHEPT 5 EN 2 ONE **<0.1%**

CAS number: 110-93-0 EC number: 203-816-7

Classification
Flam. Liq. 3 - H226

[1R-(1R*,4R*,6R*,10S*)]-4,12,12-TRIMETHYL-9-METHYLENE-5-OXATRICYCLO[8.2.0.04,6]DODECANE **<0.1%**

CAS number: 1139-30-6 EC number: 214-519-7

Classification
Aquatic Chronic 2 - H411

P-MENTH-1-EN-8-YL ACETATE **<0.1%**

CAS number: 80-26-2 EC number: 201-265-7 REACH registration number: 01-2119977127-29-XXXX

Classification
Aquatic Chronic 2 - H411

CITRUS AURANTIUM AMARA FLOWER EXTRACT

N-HEPTADECANE **<0.1%**

CAS number: 629-78-7 EC number: 211-108-4

Classification
Asp. Tox. 1 - H304

2,7,7-TRIMETHYL-3-OXATRICYCLO[4.1.1.02,4]OCTANE **<0.1%**

CAS number: 1686-14-2 EC number: 216-869-6

Classification
Acute Tox. 4 - H302

(E,Z)-2,6-DIMETHYLOCTA-2,4,6-TRIENE **<0.1%**

CAS number: 7216-56-0 EC number: 230-603-6 REACH registration number: 01-2120763500-62-XXXX

M factor (Acute) = 1 M factor (Chronic) = 1

Classification
Skin Irrit. 2 - H315
Skin Sens. 1B - H317
Asp. Tox. 1 - H304
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

3,7,7-TRIMETHYLBICYCLO[4.1.0]HEPT-3-ENE **<0.1%**

CAS number: 13466-78-9 EC number: 236-719-3

M factor (Acute) = 1 M factor (Chronic) = 1

Classification
Flam. Liq. 3 - H226
Skin Irrit. 2 - H315
Skin Sens. 1 - H317
Asp. Tox. 1 - H304
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

The full text for all hazard statements is displayed in Section 16.

Composition comments The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if symptoms are severe or persist.

Ingestion Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if symptoms are severe or persist.

Skin contact Take off immediately all contaminated clothing. Wash skin thoroughly with soap and water. Continue to rinse. Get medical attention if symptoms are severe or persist.

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Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe or persist.

4.2. Most important symptoms and effects, both acute and delayed

Ingestion May be fatal if swallowed and enters airways.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically. Contact specialist immediately poison treatment if large quantities have been ingested or inhaled

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon.

5.3. Advice for firefighters

Protective actions during firefighting Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. Provide adequate ventilation.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Usage precautions Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Provide adequate ventilation.

Advice on general occupational hygiene Do not eat, drink or smoke when using this product. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Avoid exposure to high temperatures or direct sunlight. Suitable container materials: Glass. Aluminium.

Storage class Flammable liquid storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

LINALOOL (CAS: 78-70-6)

Ingredient comments No exposure limits known for ingredient(s).

DNEL
Industry - Dermal; Short term systemic effects: 5 mg/kg/day
Industry - Inhalation; Short term systemic effects: 16.5 mg/m³
Industry - Dermal; Long term systemic effects: 2.5 mg/kg/day
Industry - Inhalation; Long term systemic effects: 2.8 mg/m³
Consumer - Dermal; Short term systemic effects: 2.5 mg/kg/day
Consumer - Inhalation; Short term systemic effects: 4.1 mg/m³
Consumer - Oral; Short term systemic effects: 1.2 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 0.7 mg/m³
Consumer - Oral; Long term systemic effects: 0.2 mg/kg/day
Consumer - Dermal; Short term local effects: 15 mg/cm²
Workers - Dermal; Long term local effects: 15 mg/cm²
Consumer - Dermal; Long term local effects: 15 mg/cm²

PNEC
- Fresh water; 0.2 mg/l
- marine water; 0.02 mg/l
- Sediment (Freshwater); 2.22 mg/kg
- Sediment (Marinewater); 0.222 mg/kg
- Soil; 0.327 mg/kg
- STP; > 10 mg/l

(R)-P-MENTHA-1,8-DIENE (CAS: 5989-27-5)

DNEL
Workers - Inhalation; Long term systemic effects: 66.7 mg/m³
Workers - Dermal; Long term systemic effects: 9.5 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 16.6 mg/m³
Consumer - Dermal; Long term systemic effects: 4.8 mg/kg/day
Consumer - Oral; Long term systemic effects: 4.8 mg/kg/day

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PNEC

Fresh water; 14 µg/l
marine water; 1.4 µg/l
STP; 1.8 mg/l
Sediment (Freshwater); 3.85 mg/kg
Sediment (Marinewater); 0.385 mg/kg
Soil; 0.763 mg/kg

LINALYL ACETATE (CAS: 115-95-7)

DNEL

Industry - Dermal; Long term systemic effects: 2.5 mg/kg/day
Industry - Inhalation; Long term systemic effects: 2.75 mg/m³
Consumer - Inhalation; Long term systemic effects: 0.68 mg/m³
Workers - Dermal; Short term local effects: 8 mg/cm²
Workers - Dermal; Long term local effects: 8 mg/cm²
Consumer - Dermal; Short term local effects: 8 mg/cm²
Consumer - Dermal; Long term local effects: 8 mg/cm²

PNEC

- Fresh water; 0.011 mg/l
- marine water; 0.0011 mg/l
- Sediment (Freshwater); 0.609 mg/kg
- Sediment (Marinewater); 0.0609 mg/kg
- Soil; 0.115 mg/kg
- STP; 10 mg/l

GERANYL ACETATE (CAS: 105-87-3)

DNEL

Workers - Inhalation; Long term systemic effects: 62.59 mg/m³
Workers - Dermal; Long term systemic effects: 35.5 mg/kg
Consumer - Inhalation; Long term systemic effects: 15.4 mg/m³
Consumer - Dermal; : 17.75 mg/kg
Consumer - Oral; : 8.9 mg/kg

PNEC

- Fresh water; 3.72 mg/l
- marine water; 0.372 mg/l
- STP; 8 mg/l
- Sediment (Freshwater); 0.442 mg/kg
- Sediment (Marinewater); 0.0442 mg/kg
- Soil; 0.0859 mg/kg

GERANIOL (CAS: 106-24-1)

DNEL

Workers - Inhalation; Long term systemic effects: 161.6 mg/l
Workers - Dermal; Long term systemic effects: 12.5 mg/kg
Consumer - Oral; Long term systemic effects: 13.75 mg/kg
Consumer - Inhalation; Long term systemic effects: 47.8 mg/m³
Consumer - Dermal; Long term systemic effects: 7.5 mg/kg

p-MENTHA-1,4(8)-DIENE (CAS: 586-62-9)

DNEL

Workers - Inhalation; Long term systemic effects: 5.12 mg/m³
Workers - Dermal; Long term systemic effects: 1.45 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 1.26 mg/m³
Consumer - Dermal; Long term systemic effects: 0.73 mg/kg/day
Consumer - Oral; Long term systemic effects: 0.73 mg/kg/day

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PNEC

Fresh water; 5.2 µg/l
marine water; 0.52 µg/l
STP; 3 mg/l
Sediment (Freshwater); 0.581 mg/kg
Sediment (Marinewater); 58.1 mg/kg
Soil; 113 µg/l

METHYL-2-AMINOBENZOATE (CAS: 134-20-3)

DNEL

Workers - Inhalation; Long term systemic effects: 5.28 mg/m³
Workers - Dermal; Long term systemic effects: 1.5 mg/kg/day
General population - Inhalation; Long term systemic effects: 1.3 mg/m³
General population - Oral; Long term systemic effects: 0.75 mg/kg/day
General population - Dermal; Long term systemic effects: 0.75 mg/kg/day

PNEC

Fresh water; 0.009 mg/l
marine water; 0.001 mg/l

INDOLE (CAS: 120-72-9)

DNEL

Workers - Inhalation; Long term systemic effects: 9.87 mg/m³
Workers - Dermal; Long term systemic effects: 2.8 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 1.48 mg/m³
Consumer - Oral; Long term systemic effects: 1 mg/kg/day
Consumer - Dermal; Long term systemic effects: 1 mg/kg/day

PNEC

Fresh water; 2 µg/l
marine water; 0.2 µg/l
Sediment (Freshwater); 56.6 µg/kg
Sediment (Marinewater); 5.66 µg/kg
Soil; 10.1 µg/kg

HEXAN-1-OL (CAS: 111-27-3)

DNEL

Workers - Dermal; Short term systemic effects: 125 mg/kg
Workers - Inhalation; Short term systemic effects: 220 mg/m³
Workers - Dermal; Long term systemic effects: 125 mg/kg
Workers - Inhalation; Long term systemic effects: 220 mg/m³
Consumer - Dermal; Short term systemic effects: 75 mg/kg
Consumer - Inhalation; Short term systemic effects: 65 mg/m³
Consumer - Oral; Short term systemic effects: 75 mg/kg
Consumer - Dermal; Long term systemic effects: 75 mg/kg
Consumer - Inhalation; Long term systemic effects: 65 mg/m³
Consumer - Oral; Long term systemic effects: 75 mg/kg

PNEC

- Fresh water; 2.6 mg/l
- marine water; 0.256 mg/l
- STP; 63.2 mg/l
- Sediment (Freshwater); 5.08 mg/kg
- Sediment (Marinewater); 0.5 mg/kg
- Soil; 2.8 mg/kg

8.2. Exposure controls

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Protective equipment

Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.
Hand protection	The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, gloves should comply with European Standard EN374.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures	Wash at the end of each work shift and before eating, smoking and using the toilet. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. If ventilation is inadequate, suitable respiratory protection must be worn. EN 136/140/141/145/143/149

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Yellowish.
Odour	Characteristic.
Odour threshold	No information available.
pH	No information available.
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	58°C
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Other flammability	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	0.8754 @ 20°C
Bulk density	No information available.

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Solubility(ies)	Insoluble in water.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	Not considered to be explosive.
Explosive under the influence of a flame	No information available.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Refractive index	1.4695
Particle size	No information available.
Molecular weight	No information available.
Volatility	No information available.
Saturation concentration	No information available.
Critical temperature	No information available.
Volatile organic compound	No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No test data specifically related to reactivity available for this product or its ingredients.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, no hazardous reactions will occur.

10.4. Conditions to avoid

Conditions to avoid Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid Oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 66,666.67

Acute toxicity - dermal

CITRUS AURANTIUM AMARA FLOWER EXTRACT

ATE dermal (mg/kg)	144,954.13

Acute toxicity - inhalation

ATE inhalation (vapours mg/l)	33.33

Skin corrosion/irritation

Skin corrosion/irritation	Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation	No information available.

Respiratory sensitisation

Respiratory sensitisation	No information available.

Skin sensitisation

Skin sensitisation	May cause an allergic skin reaction.

Germ cell mutagenicity

Genotoxicity - in vitro	No information available.

Carcinogenicity

Carcinogenicity	No information available.

Reproductive toxicity

Reproductive toxicity - fertility	No information available.
Reproductive toxicity - development	No information available.

Specific target organ toxicity - single exposure

STOT - single exposure	No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	No information available.

Aspiration hazard

Aspiration hazard	May be fatal if swallowed and enters airways.

Inhalation	Gas or vapour in high concentrations may irritate the respiratory system.
Ingestion	May be fatal if swallowed and enters airways.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	May cause temporary eye irritation.

Toxicological information on ingredients.

LINALOOL

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	2,790.0
Species	Rat
Notes (oral LD_{50})	LD_{50} 2790 mg/kg, Oral, Rat

Acute toxicity - dermal

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Acute toxicity dermal (LD_{50} mg/kg)	5,610.0
Species	Rabbit
Notes (dermal LD_{50})	LD_{50} 5610 mg/kg, Dermal, Rabbit

Skin corrosion/irritation

Skin corrosion/irritation	Irritating to skin. Rabbit

Serious eye damage/irritation

Serious eye damage/irritation	Slightly irritating. Rabbit

Skin sensitisation

Skin sensitisation	May cause an allergic skin reaction. - Rabbit: Sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro	Bacterial reverse mutation test: Negative.

Carcinogenicity

Carcinogenicity	No information available.

Reproductive toxicity

Reproductive toxicity - fertility	No information available.

Specific target organ toxicity - single exposure

STOT - single exposure	No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	NOAEL 117 mg/kg, Oral, Rat NOAEL 250 mg/kg, Dermal, Rat

Aspiration hazard

Aspiration hazard	No information available.

Toxicokinetics	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Inhalation	May cause respiratory irritation.
Ingestion	Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.
Skin contact	Irritating to skin. May cause an allergic skin reaction.
Eye contact	Causes eye irritation.

PIN-2-(10) ENE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Species	Rat

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Notes (oral LD_{50})	LD_{50} 5000 mg/kg, Oral, Rat
ATE oral (mg/kg)	5,000.0
Acute toxicity - dermal	
Acute toxicity dermal (LD_{50} mg/kg)	5,000.0
Species	Rabbit
Notes (dermal LD_{50})	LD_{50} 5000 mg/kg, Dermal, Rabbit
ATE dermal (mg/kg)	5,000.0
Aspiration hazard	
Aspiration hazard	May be fatal if swallowed and enters airways. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
Inhalation	Irritating to respiratory system.
Ingestion	Gastrointestinal symptoms, including upset stomach.
Skin contact	Irritating to skin.
Eye contact	Irritating to eyes.

(R)-P-MENTHA-1,8-DIENE

Acute toxicity - oral	
Notes (oral LD_{50})	LD_{50} 4400 mg/kg, Oral, Rat
Acute toxicity - dermal	
Notes (dermal LD_{50})	LD_{50} 5000 mg/kg, Dermal, Rabbit
Skin corrosion/irritation	
Animal data	No information available.
Serious eye damage/irritation	
Serious eye damage/irritation	No information available.
Respiratory sensitisation	
Respiratory sensitisation	No information available.
Skin sensitisation	
Skin sensitisation	No information available.
Germ cell mutagenicity	
Genotoxicity - in vitro	No information available.
Carcinogenicity	
IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
Reproductive toxicity	
Reproductive toxicity - fertility	No information available.

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard May be fatal if swallowed and enters airways. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

Inhalation May cause respiratory system irritation.

Ingestion Harmful: possible risk of irreversible effects if swallowed.

Skin contact Irritating to skin. May cause sensitisation by skin contact.

Eye contact May cause temporary eye irritation.

LINALYL ACETATE

Acute toxicity - oral

Notes (oral LD_{50}) LD_{50} 9000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD_{50}) LD_{50} >5000 mg/kg, Dermal, Rabbit

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.
Irritating to skin. Rabbit

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.
Irritating to eyes. Rabbit

Respiratory sensitisation

Respiratory sensitisation Not sensitising.

Skin sensitisation

Skin sensitisation - Guinea pig: Not sensitising.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 117 mg/kg, Oral, Rat

1-METHYL 4-ISO PROPYL-1-CYCLOHEXEN-8-OL

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg) 4,300.0

Species Rat

Notes (oral LD_{50}) LD_{50} 4300 mg/kg, Oral, Rat

ATE oral (mg/kg) 4,300.0

Acute toxicity - dermal

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Notes (dermal LD_{50})	LD_{50} > 3000 mg/kg, Dermal, Rabbit

Skin corrosion/irritation

Skin corrosion/irritation	Irritating to skin. Rabbit

Serious eye damage/irritation

Serious eye damage/irritation	Irritating to eyes. Rabbit

Skin sensitisation

Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro	Bacterial reverse mutation test: Negative.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	NOAEL 314 mg/kg, Oral, Rat (90 days ; 7 days/week)

GERANYL ACETATE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	6,330.0
Species	Rat
Notes (oral LD_{50})	LD_{50} 6330 mg/kg, Oral, Rat
ATE oral (mg/kg)	6,330.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	5,460.0
Species	Rabbit
Notes (dermal LD_{50})	LD_{50} 5460 mg/kg, Dermal, Rabbit
ATE dermal (mg/kg)	5,460.0

Skin corrosion/irritation

Skin corrosion/irritation	Irritating to skin. Rabbit

Skin sensitisation

Skin sensitisation	Local Lymph Node Assay (LLNA) - Mouse: Sensitising.

GERANIOL

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	3,600.0
Species	Rat
Notes (oral LD_{50})	LD_{50} 3600 mg/kg, Oral, Rat
ATE oral (mg/kg)	3,600.0

Acute toxicity - dermal

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Acute toxicity dermal (LD_{50} mg/kg)	5,001.0
Species	Rabbit
Notes (dermal LD_{50})	LD_{50} > 5000 mg/kg, Dermal, Rabbit
ATE dermal (mg/kg)	5,001.0

Skin corrosion/irritation

Skin corrosion/irritation	Causes skin irritation. Severe skin irritation. Rabbit

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye damage. Severe irritation. Cornea score: 3.1 - Rabbit

Skin sensitisation

Skin sensitisation	May cause an allergic skin reaction. Local Lymph Node Assay (LLNA) - Mouse: Sensitising.

MYRCENE

Acute toxicity - oral

Notes (oral LD_{50})	LD_{50} > 5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} > 5000 mg/kg, Dermal, Rabbit

NERYL ACETATE

Acute toxicity - oral

Notes (oral LD_{50})	LD_{50} > 5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} > 5000 mg/kg, Dermal, Rabbit

Skin sensitisation

Summary	May cause an allergic skin reaction.
Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Sensitising.

NEROL

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	4,500.0
Species	Rat
Notes (oral LD_{50})	LD_{50} 4500 mg/kg, Oral, Rat
ATE oral (mg/kg)	4,500.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	5,001.0

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Species	Rabbit
Notes (dermal LD_{50})	LD_{50} > 5000 mg/kg, Dermal, Rabbit
ATE dermal (mg/kg)	5,001.0

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Skin corrosion/irritation

Skin corrosion/irritation	No information available.

Serious eye damage/irritation

Serious eye damage/irritation	No information available.

Respiratory sensitisation

Respiratory sensitisation	No information available.

Skin sensitisation

Skin sensitisation	No information available.

Germ cell mutagenicity

Genotoxicity - in vitro	No information available.

Carcinogenicity

Carcinogenicity	No information available.

Reproductive toxicity

Reproductive toxicity - fertility	No information available.

Specific target organ toxicity - single exposure

STOT - single exposure	No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	No information available.

Aspiration hazard

Aspiration hazard	No information available.

Inhalation	May cause respiratory irritation.
Ingestion	Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.
Skin contact	May be slightly irritating to skin.
Eye contact	May cause temporary eye irritation.

CARYOPHYLLENE

Skin sensitisation

Skin sensitisation	May cause an allergic skin reaction.

Germ cell mutagenicity

Genotoxicity - in vitro	Bacterial reverse mutation test: Negative.

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Aspiration hazard

Aspiration hazard May be fatal if swallowed and enters airways.

Toxicokinetics The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

P-MENTH-1-EN-4-OL

Acute toxicity - oral

ATE oral (mg/kg) 500.0

p-MENTHA-1,4(8)-DIENE

Acute toxicity - oral

Notes (oral LD_{50}) LD_{50} 3850 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD_{50}) LD_{50} > 2000 mg/kg, Dermal, Rabbit

Skin sensitisation

Skin sensitisation May cause an allergic skin reaction.
Guinea pig maximization test (GPMT) - Guinea pig: Sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative.

Aspiration hazard

Aspiration hazard May be fatal if swallowed and enters airways.

METHYL-2-AMINOBENZOATE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg) 2,910.0

Species Rat

Notes (oral LD_{50}) LD_{50} 2910 mg/kg, Oral, Rat

ATE oral (mg/kg) 2,910.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg) 5,001.0

Species Rabbit

Notes (dermal LD_{50}) LD_{50} > 5000 mg/kg, Dermal, Rabbit

ATE dermal (mg/kg) 5,001.0

ALPHA-TERPINENE

Acute toxicity - oral

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Acute toxicity oral (LD_{50} mg/kg)	680.0
Species	Rat
ATE oral (mg/kg)	680.0

Aspiration hazard

Aspiration hazard	May be fatal if swallowed and enters airways.

INDOLE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	1,000.0
Species	Rat
Notes (oral LD_{50})	Harmful if swallowed. LD_{50} 1000 mg/kg, Oral, Rat
ATE oral (mg/kg)	1,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	790.0
Species	Rabbit
Notes (dermal LD_{50})	Toxic in contact with skin. LD_{50} 790 mg/kg, Dermal, Rabbit
ATE dermal (mg/kg)	790.0

Skin corrosion/irritation

Skin corrosion/irritation	No information available.

Serious eye damage/irritation

Serious eye damage/irritation	No information available.

Respiratory sensitisation

Respiratory sensitisation	No information available.

Skin sensitisation

Skin sensitisation	No information available.

Germ cell mutagenicity

Genotoxicity - in vitro	No information available.

Carcinogenicity

Carcinogenicity	No information available.

Reproductive toxicity

Reproductive toxicity - fertility	No information available.

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Reproductive toxicity - development	No information available.

Specific target organ toxicity - single exposure

STOT - single exposure	No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	No information available.

Aspiration hazard

Aspiration hazard	No information available.

Inhalation	Gas or vapour in high concentrations may irritate the respiratory system.
Ingestion	Harmful if swallowed. Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.
Skin contact	Toxic in contact with skin.
Eye contact	May cause temporary eye irritation.

PHENYLACETONITRILE

Acute toxicity - oral

ATE oral (mg/kg)	100.0

Acute toxicity - dermal

ATE dermal (mg/kg)	300.0

Acute toxicity - inhalation

ATE inhalation (vapours mg/l)	0.05

2-[(2S,5S)-5-ETHENYL-5-METHYLOXOLAN-2-YL]PROPAN-2-OL

Acute toxicity - oral

ATE oral (mg/kg)	500.0

2-(TETRAHYDRO-5-METHYL-5-VINYL-2-FURYL)PROPAN-2-OL

Acute toxicity - oral

ATE oral (mg/kg)	500.0

(1E,6E)-1-METHYL-5-METHYLIDENE-8-PROPAN-2-YLCYCLODECA-1,6-DIENE

Acute toxicity - oral

ATE oral (mg/kg)	500.0

PHENETHYL ACETATE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	3,670.0
Species	Rat

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Notes (oral LD_{50})	LD_{50} 3670 mg/kg, Oral, Rat
ATE oral (mg/kg)	3,670.0
Acute toxicity - dermal	
Acute toxicity dermal (LD_{50} mg/kg)	6,210.0
Species	Rabbit
Notes (dermal LD_{50})	LD_{50} 6210 mg/kg, Dermal, Rabbit
ATE dermal (mg/kg)	6,210.0

p-MENTHA-1,5-DIENE

Inhalation	May cause respiratory system irritation.
Ingestion	Swallowing concentrated chemical may cause severe internal injury.
Skin contact	Irritating to skin. May cause sensitisation by skin contact.
Eye contact	Irritating to eyes.

CAMPHENE

Acute toxicity - oral	
Notes (oral LD_{50})	LD_{50} >5000 mg/kg, Oral, Rat
Acute toxicity - dermal	
Notes (dermal LD_{50})	LD_{50} >2500 mg/kg, Dermal, Rabbit

Inhalation	May cause respiratory system irritation.
Ingestion	May cause stomach pain or vomiting.
Skin contact	Slightly irritating.
Eye contact	Irritating to eyes.

PARA CYMENE

Acute toxicity - oral	
Acute toxicity oral (LD_{50} mg/kg)	3,669.0
Species	Rat
Notes (oral LD_{50})	LD_{50} 3669 mg/kg, Oral, Rat
ATE oral (mg/kg)	3,669.0
Acute toxicity - inhalation	
ATE inhalation (vapours mg/l)	3.0
Aspiration hazard	
Aspiration hazard	May be fatal if swallowed and enters airways.

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Inhalation	Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.
Ingestion	May be fatal if swallowed and enters airways.
Skin contact	Liquid may irritate skin. Repeated exposure may cause skin dryness or cracking.
Eye contact	Vapour or spray in the eyes may cause irritation and smarting.

HEXAN-1-OL

Acute toxicity - oral

Notes (oral LD_{50})	LD_{50} >300-2000 mg/kg, Oral, Rat
ATE oral (mg/kg)	500.0

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} >1000-2000 mg/kg, Dermal, Rabbit
ATE dermal (mg/kg)	1,100.0

Acute toxicity - inhalation

Notes (inhalation LC_{50})	LD_{50} >21 mg/l, Inhalation, Rat

Skin corrosion/irritation

Animal data	Slightly irritating. Rabbit OECD 404

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye irritation. Rabbit OECD 405

Respiratory sensitisation

Respiratory sensitisation	No information available.

Skin sensitisation

Skin sensitisation	Not sensitising. Draize test Guinea pig

Germ cell mutagenicity

Genotoxicity - in vitro	Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity	No information available.

Reproductive toxicity

Reproductive toxicity - fertility	Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure	Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Based on available data the classification criteria are not met. NOAEL 1127 mg/kg, Dermal, Rat

Aspiration hazard

Aspiration hazard	No information available.

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Inhalation	Gas or vapour in high concentrations may irritate the respiratory system.
Ingestion	Harmful if swallowed. Liquid irritates mucous membranes and may cause abdominal pain if swallowed.
Skin contact	Harmful in contact with skin.
Eye contact	Causes serious eye irritation.

P-MENTH-1-EN-8-YL ACETATE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,075.0
Species	Rat
Notes (oral LD_{50})	LD_{50} 5075 mg/kg, Oral, Rat
ATE oral (mg/kg)	5,075.0

Germ cell mutagenicity

Genotoxicity - in vitro	This substance has no evidence of mutagenic properties. Bacterial reverse mutation test: Negative.

2,7,7-TRIMETHYL-3-OXATRICYCLO[4.1.1.02,4]OCTANE

Acute toxicity - oral

ATE oral (mg/kg)	500.0

(E,Z)-2,6-DIMETHYLOCTA-2,4,6-TRIENE

Acute toxicity - oral

Notes (oral LD_{50})	LD_{50} > 2000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD_{50})	No information available.

Acute toxicity - inhalation

Notes (inhalation LC_{50})	No information available.

Skin corrosion/irritation

Skin corrosion/irritation	Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation	Not irritating.

Respiratory sensitisation

Respiratory sensitisation	No information available.

Skin sensitisation

Skin sensitisation	May cause an allergic skin reaction. - Mouse: Sensitising. OECD 429

Germ cell mutagenicity

Genotoxicity - in vitro	Based on available data the classification criteria are not met. OECD 471

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard May be fatal if swallowed and enters airways.

Inhalation Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion May be fatal if swallowed and enters airways.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact May cause temporary eye irritation.

3,7,7-TRIMETHYLBICYCLO[4.1.0]HEPT-3-ENE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg) 4,800.0

Species Rat

Notes (oral LD_{50}) LD_{50} 4800 mg/kg, Oral, Rat

ATE oral (mg/kg) 4,800.0

Acute toxicity - dermal

Notes (dermal LD_{50}) LD_{50} 1.5 mg/kg, Inhalation, Dust/Mist, Rat

SECTION 12: Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Ecological information on ingredients.

LINALOOL

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

PIN-2-(10) ENE

Ecotoxicity Very toxic to aquatic life with long lasting effects.

(R)-P-MENTHA-1,8-DIENE

Ecotoxicity Very toxic to aquatic life with long lasting effects.

CITRUS AURANTIUM AMARA FLOWER EXTRACT

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Ecotoxicity The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

CARYOPHYLLENE

Ecotoxicity May cause long lasting harmful effects to aquatic life.

INDOLE

Ecotoxicity The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

p-MENTHA-1,5-DIENE

Ecotoxicity The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

CAMPHENE

Ecotoxicity Very toxic to aquatic life with long lasting effects.

PARA CYMENE

Ecotoxicity Toxic to aquatic life with long lasting effects.

HEXAN-1-OL

Ecotoxicity The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

(E,Z)-2,6-DIMETHYLOCTA-2,4,6-TRIENE

Ecotoxicity Very toxic to aquatic life with long lasting effects.

12.1. Toxicity

Toxicity Toxic to aquatic life.

Ecological information on ingredients.

LINALOOL

Toxicity Not considered toxic to fish.

Acute aquatic toxicity

Acute toxicity - fish LC_{50}, 96 hours: 27.8 mg/l, Fish
OECD 203

Acute toxicity - aquatic invertebrates EC_{50}, 48 hours: 59 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC_{50}, 72 hours: 156.7 mg/l, Algae

CITRUS AURANTIUM AMARA FLOWER EXTRACT

PIN-2-(10) ENE

Acute aquatic toxicity

LE(C)$_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - aquatic invertebrates	LC_{50}, 48 hour: 2.2 mg/l, Daphnia magna

Chronic aquatic toxicity

M factor (Chronic)	1

(R)-P-MENTHA-1,8-DIENE

Acute aquatic toxicity

LE(C)$_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC50, 96 hours: 0.8 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 69.6 mg/l, Daphnia magna

Chronic aquatic toxicity

M factor (Chronic)	1

LINALYL ACETATE

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: 7.9 mg/l, Freshwater fish OECD 203
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 15 mg/l, Daphnia magna OECD 202
Acute toxicity - aquatic plants	IC_{50}, 72 hours: 62 mg/l, Freshwater algae OECD 201

1-METHYL 4-ISO PROPYL-1-CYCLOHEXEN-8-OL

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hour: 70 mg/l, Fish OECD 203
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hour: 73 mg/l, Daphnia magna OECD 202
Acute toxicity - aquatic plants	EC_{50}, 72 hour: 68 mg/l, Algae OECD 201 Chronic, NOEC, 72 hour: 3.9 mg/l, Algae OECD 201

GERANYL ACETATE

Acute aquatic toxicity

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Acute toxicity - fish	LC50, 96 hours: 68.12 mg/l, Fish OECD 203
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 14.1 mg/l, Daphnia magna OECD 202
Acute toxicity - aquatic plants	IC_{50}, 72 hours: 3.72 mg/l, OECD 201 NOEC, 72 hour: 0.585 mg/l, Algae OECD 201

GERANIOL

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hour: 14 - 22 mg/l, Fish OECD 203
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hour: 10.8 mg/l, Daphnia magna OECD 202
Acute toxicity - aquatic plants	IC_{50}, 72 hour: 13.1 mg/l, Algae OECD 201

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Toxicity	Not considered toxic to fish.

CARYOPHYLLENE

Toxicity	May cause long lasting harmful effects to aquatic life.

p-MENTHA-1,4(8)-DIENE

Acute aquatic toxicity

$LE(C)_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC_{50}, 96 hours: 0.72 - 6.104 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hour: 5.184 mg/kg, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hour: 5.4 mg/l, Algae Chronic, NOEC, 72 hour: 3.47 mg/l, Algae

Chronic aquatic toxicity

M factor (Chronic)	1

METHYL-2-AMINOBENZOATE

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hour: 22.9 mg/l, Fish
Acute toxicity - aquatic invertebrates	LC_{50}, 48 hour: 18.2 mg/l, Daphnia magna

ALPHA-TERPINENE

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: 1.48 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 1.85 mg/l, Daphnia magna

INDOLE

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hour: 19.76 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hour: 2 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hour: 37.3 mg/l, Algae

PHENETHYL ACETATE

Acute aquatic toxicity

Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 36.6 mg/l, Daphnia magna

CAMPHENE

Acute aquatic toxicity

LE(C)$_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC_{50}, 96 hours: 0.1-1 mg/l, Fish

Chronic aquatic toxicity

M factor (Chronic)	1

PARA CYMENE

Toxicity	Toxic to aquatic life.

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hour: 48 ppm, Fish
Acute toxicity - aquatic invertebrates	LC_{50}, 48 hour: 6500 µg/l, Daphnia magna

HEXAN-1-OL

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: >10-100 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC_{0}, 24 hours: >100 mg/l, Daphnia magna OECD 202
Acute toxicity - aquatic plants	EC_{50}, 48 hours: >10-100 mg/l, Pseudokirchneriella subcapitata OECD 201

Chronic aquatic toxicity

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Chronic toxicity - aquatic invertebrates	NOEC, 21 days: >1-10 mg/l, Daphnia magna

P-MENTH-1-EN-8-YL ACETATE

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hour: >11 mg/l, Fish OECD 203
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hour: >10 mg/l, Daphnia magna OECD 202
Acute toxicity - aquatic plants	EC_{50}, 72 hour: 6.9 mg/l, Algae OECD 201 NOEC, 72 hour: 4.1 mg/l, Algae OECD 201

(E,Z)-2,6-DIMETHYLOCTA-2,4,6-TRIENE

Toxicity	Very toxic to aquatic life with long lasting effects.

Acute aquatic toxicity

LE(C)$_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 0.61 mg/l, Daphnia magna

Chronic aquatic toxicity

M factor (Chronic)	1

3,7,7-TRIMETHYLBICYCLO[4.1.0]HEPT-3-ENE

Acute aquatic toxicity

LE(C)$_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hour: 10 - 100 mg/l, Daphnia magna

Chronic aquatic toxicity

M factor (Chronic)	1

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Ecological information on ingredients.

LINALOOL

Persistence and degradability	The product is readily biodegradable.
Biodegradation	The substance is readily biodegradable. - Degradation (%) 64.2%: 28 days OECD 301D

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PIN-2-(10) ENE

Persistence and degradability The product is readily biodegradable.

(R)-P-MENTHA-1,8-DIENE

Persistence and degradability Not readily biodegradable.

LINALYL ACETATE

Biodegradation The substance is readily biodegradable.
- Degradation 70 - 80%: 28 days
OECD 301F

1-METHYL 4-ISO PROPYL-1-CYCLOHEXEN-8-OL

Persistence and degradability The product is readily biodegradable.

Biodegradation - Degradation 80%: 28 day

GERANYL ACETATE

Persistence and degradability The substance is readily biodegradable.

Biodegradation - Degradation > 70%: 28 days
OECD 301F

GERANIOL

Persistence and degradability The product is readily biodegradable.

Biodegradation - Degradation 90 - 100%: 28 day
OECD 301A
- Degradation 82%: 28 day
OECD 301D

NERYL ACETATE

Persistence and degradability The product is readily biodegradable.

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Persistence and degradability There are no data on the degradability of this product.

p-MENTHA-1,4(8)-DIENE

Persistence and degradability The product is readily biodegradable.

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Biodegradation - Degradation 72%: 28 day
OECD 301D

INDOLE

Persistence and degradability The product is readily biodegradable.

PHENETHYL ACETATE

Persistence and degradability The substance is readily biodegradable.

PARA CYMENE

Persistence and degradability There are no data on the degradability of this product.

HEXAN-1-OL

Persistence and degradability The product is readily biodegradable.

Biodegradation - Degradation >60: 30 days
OECD 301D

P-MENTH-1-EN-8-YL ACETATE

Persistence and degradability The product is readily biodegradable.

Biodegradation - Degradation 63%: 28 day
OECD 301F

(E,Z)-2,6-DIMETHYLOCTA-2,4,6-TRIENE

Persistence and degradability There are no data on the degradability of this product.

Biodegradation - Degradation 50%: 28 days
OECD 301D

3,7,7-TRIMETHYLBICYCLO[4.1.0]HEPT-3-ENE

Persistence and degradability The product is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

Ecological information on ingredients.

LINALOOL

Bioaccumulative potential The product is not bioaccumulating.

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Partition coefficient log Kow: 2.7

(R)-P-MENTHA-1,8-DIENE

Bioaccumulative potential Potentially bioaccumulating.

Partition coefficient log Pow: 4.38

LINALYL ACETATE

Bioaccumulative potential Bioaccumulation is unlikely.

Partition coefficient log Pow: 3.9

1-METHYL 4-ISO PROPYL-1-CYCLOHEXEN-8-OL

Bioaccumulative potential Bioaccumulation is unlikely.

Partition coefficient log Pow: 2.67

GERANYL ACETATE

Bioaccumulative potential Potentially bioaccumulating.

Partition coefficient log Pow: 4.5

GERANIOL

Bioaccumulative potential Bioaccumulation is unlikely.

Partition coefficient log Pow: 2.6

NERYL ACETATE

Bioaccumulative potential Bioaccumulation is unlikely.

Partition coefficient log Pow: 3.67

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

CARYOPHYLLENE

Bioaccumulative potential Potentially bioaccumulating.

Partition coefficient log Pow: 6.23

p-MENTHA-1,4(8)-DIENE

Bioaccumulative potential Bioaccumulation is unlikely.

Partition coefficient log Pow: 3.7

METHYL-2-AMINOBENZOATE

Bioaccumulative potential Bioaccumulation is unlikely.

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Partition coefficient log Pow: 1.9

INDOLE

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

CAMPHENE

Bioaccumulative potential Potentially bioaccumulating.

Partition coefficient log Pow: 4.5

PARA CYMENE

Bioaccumulative potential No data available on bioaccumulation.

HEXAN-1-OL

Bioaccumulative potential Bioaccumulation is unlikely.

Partition coefficient log Pow: 1.8

P-MENTH-1-EN-8-YL ACETATE

Bioaccumulative potential Potentially bioaccumulating.

Partition coefficient log Pow: 4.4

(E,Z)-2,6-DIMETHYLOCTA-2,4,6-TRIENE

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient log Pow: 4.71

12.4. Mobility in soil

Mobility Insoluble in water.

Ecological information on ingredients.

LINALOOL

Mobility The product is insoluble in water.

PIN-2-(10) ENE

Mobility The product is insoluble in water.

(R)-P-MENTHA-1,8-DIENE

Mobility The product is insoluble in water.

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Mobility Not determined.

INDOLE

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Mobility No information available.

p-MENTHA-1,5-DIENE

Mobility The product is insoluble in water.

CAMPHENE

Mobility The product is insoluble in water.

PARA CYMENE

Mobility Not determined.

HEXAN-1-OL

Mobility No information available.

(E,Z)-2,6-DIMETHYLOCTA-2,4,6-TRIENE

Mobility No information available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

Ecological information on ingredients.

LINALOOL

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

(R)-P-MENTHA-1,8-DIENE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

INDOLE

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

PARA CYMENE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

HEXAN-1-OL

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Results of PBT and vPvB assessment Based on available data the classification criteria are not met.

(E,Z)-2,6-DIMETHYLOCTA-2,4,6-TRIENE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects None known.

Ecological information on ingredients.

LINALOOL

Other adverse effects The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

(R)-P-MENTHA-1,8-DIENE

Other adverse effects Not determined.

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Other adverse effects Not determined.

CARYOPHYLLENE

Other adverse effects The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

INDOLE

Other adverse effects None known.

PARA CYMENE

Other adverse effects No information available.

HEXAN-1-OL

Other adverse effects Not determined.

(E,Z)-2,6-DIMETHYLOCTA-2,4,6-TRIENE

Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Do not puncture or incinerate, even when empty. Empty containers or liners may retain some product residues and hence be potentially hazardous.

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General Wear protective clothing as described in Section 8 of this safety data sheet.

14.1. UN number

UN No. (ADR/RID) 1197

UN No. (IMDG) 1197

UN No. (ICAO) 1197

UN No. (ADN) 1197

14.2. UN proper shipping name

Proper shipping name (ADR/RID) EXTRACTS, LIQUID

Proper shipping name (IMDG) EXTRACTS, LIQUID

Proper shipping name (ICAO) EXTRACTS, LIQUID

Proper shipping name (ADN) EXTRACTS, LIQUID

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID classification code F1

ADR/RID label 3

IMDG class 3

ICAO class/division 3

ADN class 3

Transport labels

14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

ADN packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user

EmS F-E, S-D

CITRUS AURANTIUM AMARA FLOWER EXTRACT

ADR transport category	3
Emergency Action Code	•3YE
Hazard Identification Number (ADR/RID)	33
Tunnel restriction code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information required.

SECTION 15: Regulatory information

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

EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015. This product may impact SEVESO storage regulations.
Restrictions (Annex XVII Regulation 1907/2006)	This product is/contains a substance that is included in REGULATION (EC) No 1907/2006 (REACH) ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES. Entry number: 3
Seveso Directive - Control of major accident hazards	P5c E2

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

All the ingredients are listed or exempt.

SECTION 16: Other information

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
CAS: Chemical Abstracts Service.
DNEL: Derived No Effect Level.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
Kow: Octanol-water partition coefficient.
LC_{50}: Lethal Concentration to 50 % of a test population.
LD_{50}: Lethal Dose to 50% of a test population (Median Lethal Dose).
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
vPvB: Very Persistent and Very Bioaccumulative.
IARC: International Agency for Research on Cancer.
MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
cATpE: Converted Acute Toxicity Point Estimate.
BCF: Bioconcentration Factor.
BOD: Biochemical Oxygen Demand.
EC_{50}: 50% of maximal Effective Concentration.
LOAEC: Lowest Observed Adverse Effect Concentration.
LOAEL: Lowest Observed Adverse Effect Level.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
NOEC: No Observed Effect Concentration.
LOEC: Lowest Observed Effect Concentration.
DMEL: Derived Minimal Effect Level.
EL50: Exposure Limit 50
hPa: Hectopascal
LL50: Lethal Loading fifty
OECD: Organisation for Economic Co-operation and Development
POW: Octanol-water partition coefficient
SCBA: self-contained breathing apparatus
STP: Sewage Treatment Plant
VOC: Volatile Organic Compounds

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
Aquatic Acute = Hazardous to the aquatic environment (acute)
Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Key literature references and sources for data

Supplier's information.

Classification procedures according to Regulation (EC) 1272/2008

Flam. Liq. 3 - H226: On basis of test data. Asp. Tox. 1 - H304: REACH dossier information. Skin Irrit. 2 - H315: REACH dossier information. Skin Sens. 1 - H317: REACH dossier information. Aquatic Chronic 2 - H411: REACH dossier information.

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date

31/05/2023

CITRUS AURANTIUM AMARA FLOWER EXTRACT

Version number	2.000
Supersedes date	15/07/2022
SDS number	62447
SDS status	Approved.
Hazard statements in full	H226 Flammable liquid and vapour. H228 Flammable solid. H301 Toxic if swallowed. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H330 Fatal if inhaled. H335 May cause respiratory irritation. H361 Suspected of damaging fertility or the unborn child. H361d Suspected of damaging the unborn child. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life.
Signature	Jitendra Panchal