

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 10/29/2014 Revision date: 6/28/2021 Supersedes version of: 10/19/2017 Version: 1.2

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

1.1. Product identifier

Product group

Product form : Substance

Substance name : ORGANIC INULA OIL

 EC-No.
 : 295-773-6

 CAS-No.
 : 92128-75-1

 Product code
 : BINUHE02

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

1.2.1. Relevant identified uses

Main use category : Industrial use Industrial/Professional use spec : Industrial

For professional use only

: Organic essential oil

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

EXAFLOR 5 rue des Pyrénées P.O. Box CP 30561 94653 Rungis Cedex - France T +33 (0)1 41 73 23 10

exaflor@orange.fr - www.exaflor.co

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
	ORFILA (FRANCE)		+33 1 45 42 59 59	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2 H319
Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :





GHS07 GHS09

Signal word (CLP) : Warning

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Hazard statements (CLP) : H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

Precautionary statements (CLP) : P261 - Avoid breathing fume, gas, dust, vapours.

P264 - Wash hands thoroughly after handling. P273 - Avoid release to the environment.

H411 - Toxic to aquatic life with long lasting effects.

P280 - Wear protective gloves, protective clothing, eye protection. P302+P352 - IF ON SKIN: Wash with plenty of with water & soap.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.

P391 - Collect spillage.

P501 - Dispose of contents/container to contents/container to agreemented companies

according to national regulations.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name : ORGANIC INULA OIL

CAS-No. : 92128-75-1 EC-No. : 295-773-6

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
L-BORNYL ACETATE	CAS-No.: 5655-61-8 EC-No.: 227-101-4	37 – 67	Not classified
BORNEOL	CAS-No.: 507-70-0 EC-No.: 208-080-0	8 – 26	Skin Sens. 1, H317
CAMPHENE	CAS-No.: 79-92-5 EC-No.: 201-234-8	4 – 10	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
BETA-CARYOPHYLLENE	CAS-No.: 87-44-5 EC-No.: 201-746-1	≤ 4	Not classified
ALPHA-TERPINEOL	CAS-No.: 98-55-5 EC-No.: 202-680-6	≤ 3	Skin Irrit. 2, H315 Eye Irrit. 2, H319
D-LIMONENE	CAS-No.: 5989-27-5 EC-No.: 227-813-5 EC Index-No.: 601-029-00-7	≤ 2.5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
LINALOOL Full toy t of LI otetements are a section 16	CAS-No.: 78-70-6 EC-No.: 201-134-4	≤ 0.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water,

followed by warm water rinse. Wash with plenty of water/... If skin irritation or rash occurs: Immediately call a POISON CENTER/doctor, Get immediate medical advice/attention. Get medical advice/attention. Specific treatment (see Read label before use. on this label).

Wash contaminated clothing before reuse.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Get medical $\protect\$

advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/effects after inhalation : May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye irritation.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

Collect spillage. Store away from other materials.

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6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent

formation of vapour. Avoid breathing smokes, vapours.

Hygiene measures : Wash hands thoroughly after handling. Contaminated work clothing should not be allowed

out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources,

Direct sunlight. Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Maximum storage period : 3 year Shelf life to guarantee the quality and properties of the product; After this period, it is

recommended to control organoleptic and physicochemical properties before using the raw

material.

Storage temperature : $\sim 18 (5 - 25) ^{\circ}\text{C}$

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

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8.2.2.2. Skin protection

Hand protection:

Wear protective gloves.

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : light yellow. Greenish. Green.

Appearance : Liquid Clear.

Odour : characteristic. aromatic. resinous.

Odour threshold : Not available : Not available Melting point Freezing point : Not available Boiling point : Not available Flammability : Non flammable. **Explosive limits** : Not available Lower explosive limit (LEL) : Not available Upper explosive limit (UEL) : Not available Flash point 71 °C Auto-ignition temperature : Not available Decomposition temperature : Not available : Not available Viscosity, kinematic : Not available

Solubility : Insoluble in water. Solubility in ethanol.

Partition coefficient n-octanol/water (Log Kow) : Not available : Not available Vapour pressure Vapour pressure at 50 °C : Not available : Not available Density Relative density : 0.96 - 0.98 : Not available Relative vapour density at 20 °C : Not applicable Particle size Particle size distribution : Not applicable Particle shape : Not applicable Particle aspect ratio : Not applicable : Not applicable Particle aggregation state Particle agglomeration state : Not applicable Particle specific surface area : Not applicable Particle dustiness Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

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SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

Respiratory or skin sensitisation

Germ cell mutagenicity

Additional information Carcinogenicity

Additional information

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

,		
BORNEOL (507-70-0)		
LD50 oral rat	5800 mg/kg [French Demande Patent Document. Vol. #2448856]	
LD50 oral	1059 mg/kg LD50 oral mouse [Shika Gakuho. Journal of Dentistry. Vol. 75, Pg. 934, 1975]	
LD50, mammalian, acute, oral, rabbit, systemic	= 2000 mg/kg ([Reviews of Environmental Contamination and Toxicology. Vol. 113, Pg. 47, 1990])	
CAMPHENE (79-92-5)		
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 2500 mg/kg	
D-LIMONENE (5989-27-5)		
LD50 oral rat	4400 mg/kg	
LD50 dermal rabbit	> 5000 mg/kg	
LINALOOL (78-70-6)		
LD50 oral rat	2790 mg/kg	
LD50 oral	3120 mg/kg LD50 oral mouse	
LD50 dermal rabbit	5610 mg/kg	
Skin corrosion/irritation	: Not classified	
Additional information	: Based on available data, the classification criteria are not met	
Serious eye damage/irritation	: Causes serious eye irritation.	

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: Based on available data, the classification criteria are not met

: Based on available data, the classification criteria are not met

: May cause an allergic skin reaction.

: Not classified

: Not classified

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D-LIMONENE (5989-27-5)		
IARC group	3 - Not classifiable	
Reproductive toxicity	: Not classified	
Additional information	: Based on available data, the classification criteria are not met	
STOT-single exposure	: Not classified	
Additional information	: Based on available data, the classification criteria are not met	
STOT-repeated exposure	: Not classified	
Additional information	: Based on available data, the classification criteria are not met	
Aspiration hazard	: Not classified	
Additional information	: Based on available data, the classification criteria are not met	

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

11.2.2. Other information

Potential adverse human health effects and

: Based on available data, the classification criteria are not met

symptoms

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Toxic to aquatic life with long lasting effects.

 $\label{thm:local_equation} \mbox{Hazardous to the aquatic environment, short-term}$

(acute)

Not classified

Hazardous to the aquatic environment, long-term

: Toxic to aquatic life with long lasting effects.

(chronic)

(Chiastile)		
CAMPHENE (79-92-5)		
LC50 - Fish [1]	0.72 mg/l	
EC50 - Crustacea [1]	22 mg/l	
EC50 - Other aquatic organisms [1]	1000	
D-LIMONENE (5989-27-5)		
LC50 - Fish [1]	0.702 mg/l Pimephales promela (fathead minnow) -96h	
EC50 - Crustacea [1]	69.6 daphnia - 48h	
LINALOOL (78-70-6)		
LC50 - Fish [1]	27.8 mg/l EC 50 (fish : rainbow trout) : - 96h	
LC50 - Other aquatic organisms [1]	88.3 mg/l Desmodesmus subspicatus (green algae) - 96h	
EC50 - Crustacea [1]	59 mg/l EC50 48h - Daphnia magna [mg/l]	
NOEC chronic fish	3.5 mg/l Oncorhynchus mykiss (Rainbow trout)- 96h	
NOEC chronic crustacea	25 mg/l daphnia - 48h	

12.2. Persistence and degradability

ORGANIC INULA OIL (92128-75-1)	
Persistence and degradability	May cause long-term adverse effects in the environment.
BORNEOL (507-70-0)	
Persistence and degradability	Not established.

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AMPHENE (79-92-5)	
Biodegradation	4 % aerobic - No readily biodegradable
ALPHA-TERPINEOL (98-55-5)	
Persistence and degradability	Not established.
D-LIMONENE (5989-27-5)	
Persistence and degradability	May cause long-term adverse effects in the environment.
LINALOOL (78-70-6)	
Persistence and degradability	Readily biodegradable. Not established.
Biodegradation	100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B

12.3. Bioaccumulative potential

ORGANIC INULA OIL (92128-75-1)		
Bioaccumulative potential	Not established.	
BORNEOL (507-70-0)		
Partition coefficient n-octanol/water (Log Kow)	2.69	
Bioaccumulative potential	Not established.	
CAMPHENE (79-92-5)		
BCF - Fish [1]	922 mg/l - 56 d - Cyprinus carpio (Carp) - not significantly accumulate	
ALPHA-TERPINEOL (98-55-5)		
Bioaccumulative potential	Not established.	
D-LIMONENE (5989-27-5)		
Bioaccumulative potential	Not established.	
LINALOOL (78-70-6)		
Partition coefficient n-octanol/water (Log Pow)	2.97	
Bioaccumulative potential	Not established.	

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information

: Avoid release to the environment.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to contents/container to agreemented companies according to national

regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

UN-No. (ADR) : Not applicable
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable
UN-No. (ADN) : Not applicable
UN-No. (RID) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable



IATA

Transport hazard class(es) (IATA) : Not applicable



ADN

Transport hazard class(es) (ADN) : Not applicable



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RID

Transport hazard class(es) (RID) : Not applicable

:



14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

EU restriction list (F	EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description	
3.	ORGANIC INULA OIL ; LINALOOL ; D- LIMONENE ; ALPHA- TERPINEOL	Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	
40.	BORNEOL ; D- LIMONENE ; CAMPHENE	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	

ORGANIC INULA OIL is not on the REACH Candidate List ORGANIC INULA OIL is not on the REACH Annex XIV List

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ORGANIC INULA OIL is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

ORGANIC INULA OIL is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Germany

Water hazard class (WGK) : Not classified according to Regulation Governing Systems for Handling Substances

Hazardous to Waters (AwSV)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and

amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements		
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
H226	Flammable liquid and vapour.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
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.	

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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