

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 2/5/2019 Version: 1.0

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

1.1. Product identifier

Product form : Substance

Substance name : Orange Sweet Essential Oil
Chemical name : Citrus Aurantium Dulcis Peel Oil

 EC Index-No.
 : 232-433-8

 EC-No.
 : 232-433-8

 CAS-No.
 : 8028-48-6

 Product code
 : 105

Synonyms : Sweet Orange, Citrus aurantium L. var. dulcis L. (syn: Citrus sinensis), Rutaceae

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

Use of the substance/mixture : Cosmetics

Food/feedstuff additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Naissance

Unit 9 & 11 Milland Road Industrial Estate

Milland Road

SA11 1NJ Neath - United Kingdom

www.discoveringbetter.com

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3 H226
Skin corrosion/irritation, Category 2 H315
Skin sensitisation, Category 1 H317
Aspiration hazard, Category 1 H304
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)







GHS02

GHS07

GHS08

GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H226 - Flammable liquid and vapour.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H411 - Toxic to aquatic life with long lasting effects.

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Precautionary statements (CLP) : P370+P378 - In case of fire: Use Use foam, carbon dioxide, dry powder or water fog to extinguish to extinguish.

P362 - Take off contaminated clothing.

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

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P264 - Wash hands, forearms and face thoroughly after handling.

P243 - Take action to prevent static discharges.

P242 - Use non-sparking tools.

P240 - Ground and bond container and receiving equipment.

P233 - Keep container tightly closed.

P501 - Dispose of contents to hazardous or special waste collection point, in accordance

with local, regional, national and/or international regulation.

P405 - Store locked up.

P331 - Do NOT induce vomiting.

P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.. Immediately call a doctor, a POISON CENTER. P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER.

P280 - Wear protective clothing, eye protection, face protection.

P273 - Avoid release to the environment.

P261 - Avoid breathing spray, vapours.

P241 - Use explosion-proof electrical equipment.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P391 - Collect spillage.

P403+P235 - Store in a well-ventilated place. Keep cool.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name : Orange Sweet Essential Oil

CAS-No. : 8028-48-6 EC-No. : 232-433-8 EC Index-No. : 232-433-8

Name	Product identifier	%
Limonene	(CAS-No.) 5989-27-5 (EC-No.) 227-813-5	60 - 99
Linalool	(CAS-No.) 78-70-6 (EC-No.) 201-134-4	<= 9
Decanal	(CAS-No.) 112-31-2	<= 6
Myrcene	(CAS-No.) 123-35-3 (EC-No.) 204-622-5	<= 5
Octanal	(CAS-No.) 124-13-0 (EC-No.) 204-683-8	<= 5
Alpha-Pinene	(CAS-No.) 80-56-8 / 7785-26-4 (EC-No.) 201-291-9	<= 4
Citral	(CAS-No.) 5392-40-5 (EC-No.) 226-394-6	<= 3
alpha-Terpineol	(CAS-No.) 98-55-5 (EC-No.) 202-680-6	<= 2
Citronellal	(CAS-No.) 106-23-0 (EC-No.) 203-376-6	<= 1

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

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 : Assure fresh air breathing. Allow the victim to rest.

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

followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.

: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness First-aid measures after eye contact

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

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Get medical advice/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 skin contact : Causes skin irritation. 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, Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

Hazardous decomposition products in case of fire : fume. Carbon monoxide. Carbon dioxide.

5.3. Advice for firefighters

Precautionary measures fire : Eliminate all ignition sources if safe to do so. Evacuate area.

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

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

General measures : Remove ignition sources. Stop leak if safe to do so. No open flames. No smoking.

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. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

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

On land, sweep or shovel into suitable containers. Collect spillage. Minimise generation of

dust. Store away from other materials.

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. No open flames. No smoking.

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of

7.2. Conditions for safe storage, including any incompatibilities

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

sunlight, Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Keep container tightly closed.

the workplace. Wash contaminated clothing before reuse.

Incompatible products : Oxidizing agent. Strong acids. Strong bases Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s)

Hygiene measures

No additional information available

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SECTION 8: Exposure controls/personal protection			
8.1. Control parameters			
Alpha-Pinene (80-56-8 / 7785-26-4)			
TRGS 910 Acceptable concentration notes			
ACGIH TWA (ppm)	20 ppm		
	TRGS 910 Acceptable concentration notes		

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Avoid all unnecessary exposure. EN 374.

Hand protection:
Protective gloves made of PVC
Eye protection:
Chemical goggles or safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of inadequate ventilation wear respiratory protection.

Personal protective equipment symbol(s):







Environmental exposure controls:

Avoid release to the environment.

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
Appearance : Liquid.

Colour : Orange to orange red.
Odour : characteristic.
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available

Melting point : REACH dossier information. Orange oil was found to be a clear mobile liquid at 20c and a

slightly turbid mobile liquid at -25c after 72h

Freezing point : No data available

Boiling point : REACH dossier information. 160°C @ 1026 hPa
Flash point : REACH dossier information. 53.4 +/-1°C CC (Closed cup)
Auto-ignition temperature : REACH dossier information. 1012.2 - 1016.5 hPA @ 235°C

Decomposition temperature : No data available Flammability (solid, gas) : Non flammable.

Vapour pressure : REACH dossier information. 186.4 Pa @ 25°C

Relative vapour density at 20 °C : No data available Relative density : $\approx 0.84 @ 20 °C$ Solubility : No data available Log Pow : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available

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Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

Refractive index : 1.479 @ 20°C

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Overheating. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Orange Sweet Essential Oil (8028-48-6)	
LD50 oral rat	5000 mg/m³
LD50 oral	5000 mg/kg
LD50 dermal rabbit	5000 mg/kg
LD50 dermal	5000 mg/kg

Limonene (5989-27-5)	
LD50 oral rat	4400 mg/kg
LD50 dermal	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 20 mg/l

Myrcene (123-35-3)	
LD50 oral	> 2000 mg/kg
LD50 dermal	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 20 mg/l/4h

Alpha-Pinene (80-56-8 / 7785-26-4)	
LD50 oral rat	3700 mg/kg

Linalool (78-70-6)	
LD50 oral rat	3000 mg/kg
LD50 dermal rabbit	5610 mg/kg
LC50 inhalation rat (mg/l)	> 20 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.

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

Serious eye damage/irritation : Not classified

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

Respiratory or skin sensitisation : May cause an allergic skin reaction.

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

Germ cell mutagenicity : Not classified

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

Carcinogenicity : Not classified

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

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 : May be fatal if swallowed and enters airways.

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

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 : Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Limonene (5989-27-5)

LC50 fish 1	≈ 33 mg/l
EC50 Daphnia 1	0.1 - 1 mg/l
ErC50 (algae)	0.1 - 1 mg/l

Linalool (78-70-6)

Enalog (10-10-0)		
LC50 fish 1	27.8 mg/l	
EC50 Daphnia 1	59 mg/l	
EC50 96h algae (1)	88.3 mg/l	

12.2. Persistence and degradability

Orange Sweet Essential Oil (8028-48-6)

Persistence and degradability Not established. May cause long-term adverse effects in the environment.

Limonene (5989-27-5)

Persistence and degradability Not established. May cause long-term adverse effects in the environment.

Myrcene (123-35-3)

Persistence and degradability Not established. May cause long-term adverse effects in the environment.

Alpha-Pinene (80-56-8 / 7785-26-4)

Persistence and degradability

Not established. May cause long-term adverse effects in the environment.

Linalool (78-70-6)

Persistence and degradability Not established

Decanal (112-31-2)

Persistence and degradability Not established.

Octanal (124-13-0)

Persistence and degradability

Not established. May cause long-term adverse effects in the environment.

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Additional information

alpha-Terpineol (98-55-5)			
Persistence and degradability	Not established.		
Citronellal (106-23-0)			
Persistence and degradability	Not established. May cause long-term adverse effects in the environment.		
Citral (5392-40-5)			
Persistence and degradability	Not established.		
12.3. Bioaccumulative potential			
Orange Sweet Essential Oil (8028-48-6)			
Bioaccumulative potential	Not established.		
Limenana (5000 07 5)			
Limonene (5989-27-5)			
Bioaccumulative potential	Not established.		
Myrcene (123-35-3)			
	5.29		
Log Pow			
Bioaccumulative potential	Not established.		
Alpha-Pinene (80-56-8 / 7785-26-4)			
	Not established.		
Bioaccumulative potential	Not established.		
Linalool (78-70-6)			
Log Pow	2.84 - 3.1		
Bioaccumulative potential	Not established.		
Disassamalativo potential	not octaviolise.		
Decanal (112-31-2)			
Bioaccumulative potential	Not established.		
·			
Octanal (124-13-0)			
Bioaccumulative potential	Not established.		
alpha-Terpineol (98-55-5)			
Bioaccumulative potential	Not established.		
Citronellal (106-23-0)			
Bioaccumulative potential	Not established.		
Citral (5392-40-5)			
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. Other adverse effects			

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: 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.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN

in decordance with ABIC TRE	in accordance with ADR / RID / IMDG / IATA / ADN					
ADR	IMDG	IATA	ADN	RID		
14.1. UN number						
UN 1169	UN 1169	UN 1169	UN 1169	UN 1169		
14.2. UN proper shipping name						
EXTRACTS, AROMATIC, LIQUID	EXTRACTS, AROMATIC, LIQUID	Extracts, aromatic, liquid	EXTRACTS, AROMATIC, LIQUID	EXTRACTS, AROMATIC, LIQUID		
Transport document descr	iption					
UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS	UN 1169 Extracts, aromatic, liquid, 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, ENVIRONMENTALLY HAZARDOUS		
14.3. Transport hazard	class(es)					
3	3	3	3	3		
***************************************	¥2	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1			
14.4. Packing group						
III	III	III	III	III		
14.5. Environmental hazards						
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment: Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes		

No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1 Special provisions (ADR) : 601 Limited quantities (ADR) : 51 Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19 Portable tank and bulk container instructions : T2 (ADR)

Portable tank and bulk container special provisions

: TP1 (ADR)

Tank code (ADR) : LGBF Vehicle for tank carriage : FL : 3 Transport category (ADR) Special provisions for carriage - Packages (ADR) : V12 Special provisions for carriage - Operation (ADR) : S2 Hazard identification number (Kemler No.) : 30

Orange plates

Tunnel restriction code (ADR) : D/E

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EAC code : 3YE

Transport by sea

Special provisions (IMDG) : 223, 955

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P001, LP01

IBC packing instructions (IMDG) : IBC03

Tank instructions (IMDG) : T2

Tank instructions (IMDG) : T2
Tank special provisions (IMDG) : TP1
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-D
Stowage category (IMDG) : A

Properties and observations (IMDG) : Usually consist of alcoholic solutions. Miscibility with water depends upon the composition.

Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y344 PCA limited quantity max net quantity (IATA) : 10L PCA packing instructions (IATA) : 355 PCA max net quantity (IATA) : 60L CAO packing instructions (IATA) : 366 : 220L CAO max net quantity (IATA) Special provisions (IATA) : A3 ERG code (IATA) : 3L

Inland waterway transport

Number of blue cones/lights (ADN)

Classification code (ADN) : F1
Special provisions (ADN) : 601
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Equipment required (ADN) : PP, EX, A
Ventilation (ADN) : VE01

Rail transport

Classification code (RID) : F1
Special provisions (RID) : 601
Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T2
Portable tank and bulk container special provisions : TP1

(RID)

Tank codes for RID tanks (RID) : LGBF
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Colis express (express parcels) (RID) : CE4
Hazard identification number (RID) : 30

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

Not applicable

SECTION 15: Regulatory information

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

: 0

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Orange Sweet Essential Oil is not on the REACH Candidate List

Orange Sweet Essential Oil is not on the REACH Annex XIV List

Orange Sweet Essential 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.

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Orange Sweet Essential Oil is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

15.1.2. National regulations

No additional information available

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
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
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
Skin Sens. 1B	Skin sensitisation, category 1B
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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.
H412	Harmful to aquatic life with long lasting effects.

SDS EU (REACH Annex II)

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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