

1. Identification of the substances / mixture and of the company/undertaking.			
1.1 Product identifier: Bitter Orange Oil			
Substance name: Citrus aurantium L. var. amara			
EC NO:	277-143-2	CAS NO:	68916-04-01
		EINECS CAS Number: 72968-50-4	
Index No:	Reach Registration No:		
1.2 Relevant identified uses of the substance or mixture and uses advised against			
Identified uses: Industrial			
Uses advised against:			
1.3 Details of the supplier of the safety data sheet			
Company	Penny Price Aromatherapy Ltd		
	Unit D3 Radius Court		
	Maple Drive		
	Hinckley		
	Leicestershire LE10 3BE		
Email	info@penny-price.com		
1.4 Emergency Telephone Number	00 44 (0) 1455 251020 opening hours Mon – Thurs 9am – 5pm, Fri 9am – 2pm. <u>Or call NHS 111 or NHS 999</u>		

2. Hazards Identification			
2.1 Classification of the substance or mixture.	The product is classified as dangerous according to the provisions set forth in Directives 67/548/EEC and 1999/45/EC and/or Regulation (EU) 1272/2008 (CLP) (and subsequent amendments). The product thus requires a Safety Data Sheet complies with provisions of Regulation (EC) No 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in Section 11 and 12 of this sheet.		
Classified according to Regulation (EC) 1272/2008 (CLP) as amended	Physical and Chemical Hazards	Flam. Liq. 3	
	Human Health	Acute Tox. 2 Asp. Tox. 1	Skin Sens. 1
	Environment	Aquatic Acute. 1	Aquatic Chronic. 1

2.2 Label Element Labelling according to Regulation (EC) No.1272/2008:



Signal Word. DANGER

Hazard statements.

H226	Flammable Liquid and vapour	H304	May be fatal if swallowed and enters airways.
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H315	Causes skin irritation.	H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.	H410	Very toxic to aquatic life with long lasting effects.
Precautionary Statement:			
P210	Keep away from heat /sparks /open flames/hot surfaces. No smoking.	P233	Keep container tightly closed.
P240	Ground/ bond container and receiving equipment.	P241	Use explosion-proof electrical / ventilating/ light equipment.
P242	Use only non-sparking tools.	P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust /fume /gas /mist /vapour/spray	P264	Wash with water thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.	P273	Avoid release to the environment.
P280	Wear protective gloves / protective clothing / eye protection / face protection		
Supplementary Precautionary Statement:			
P321	Specific treatment (see ... on this label).	P362	Remove the contaminated
P363	Wash contaminated clothing before reuse.	P391	Collect spillage
P302+P352	IF ON SKIN: Wash with plenty of soap and water.	P303+P361+P353	IF ON SKIN (or hair): Remove / take off immediately all contaminated clothing. Rinse skin with water /shower.
P370+P378	In case of fire: Use CO ₂ , foam, sand for extinction.	P332+P313	If skin irritation occurs: Get medical advice / attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/ attention.	P403+P235	Store in a well-ventilated place. Keep Cool.
P405	Store locked up.	P501	Dispose of contents/ containers in accordance with local/regional/ national/ international regulations.
2.3 Other hazards – Results of PBT and vPvB			

3. 1 Composition / information on ingredients:

Substance name	Index number under CLP Annex VI	Weight % content (or range)	CL, M-Factor, ATE
d-limonene (R) -p-Mentha-1, 8-diene	CAS No: 5989-27-7 EC: 227-813-5	92 -94	GHS02-Flammable / GHS07 – Harmful / GHS09 – Environmental. Flam. Liq. 3. Skin Irrit. 2. Skin Sens. 1. Aquatic Acute. 1. Aquatic Chronic. 1 H226, H315, H317, H400, H410
Gamma – terpinene	CAS No: 99-85-4 EC: 202-794-6	0.005-0.130	GHS02 – Flammable / GHS08 Health Flam. Liq. 3. Asp. Tox. 1 H226. H304
Beta Pinene			GHS02 – Flammable / GHS08 Health / GHS09 – Environment. Flam. Liq. 3, Skin Sens. 1, Asp.Tox.1 H226, H304, H317, H400, H410

4. First Aid Measures

4.1 General	Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours, therefore medical observation for at least 48 hours after the accident.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Obtain medical attention if required.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
Skin contact	Take off all contaminated clothing. Rinse skin with water/shower. If irritation persists seek medical attention
Ingestion	Rinse mouth out with water. Do NOT induce vomiting. Immediately call POISON CENTER or GP. Do not give milk or fatty oils.

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

	No further relevant information available.
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4.3 Indication of any immediate medical attention and special treatment need

	No further relevant information available.
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5. Firefighting Measures

5.1 Extinguishing Media:

Suitable extinguishing media:	CO2, Foam, Sand
Unsuitable extinguishing media:	Water

5.2 Special hazards arising from the substances or mixture

Hazardous combustion products:	
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5.3 Advice for firefighters

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6 Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

6.1.1 For non-emergency personnel	
Protective equipment:	
Emergency procedures:	Avoid contact with eyes and mucous.
6.1.2 For Emergency responders	
6.2 Environmental precautions	Do not allow to enter sewers. Do not allow to enter surface water or drains.
6.3 Methods for cleaning up –	Pick up in a special container. Wash with water and soap up to the complete elimination of the product.
6.3.1 For containment:	
6.3.2 For cleaning up:	
6.3.3. Other information:	
6.4 Reference to other sections	

7. Handling and storage	
7.1 Precautions for safe handling: Avoid contact with eyes and mucous.	
Protective measures: Ensure good ventilation/ exhaustion at the workplace.	
Measures to prevent fire:	
Measures to prevent aerosol and dust generation:	
Measures to protect the environment:	
Advice on general occupational hygiene:	
7.2 Conditions for safe storage, including any incompatibilities	
Technical measures and storage conditions:	
Packaging Materials:	

Requirements for storage and vessels:	Store in dry, well-ventilated area. Store in tightly closed container.
Storage Class: Further information on storage containers:	
7.3 Specific end use(s).	See section 8
Recommendations:	
Industrial sector specific solutions:	

8. Exposure controls/Personal protection

8.1 Control parameters

8.2 Exposure controls

8.2.2 Personal Protection equipment

8.2.2.1 Eye / face protection Wear protective glasses. In case of contact with the eyes – wash them with clean water.

8.2.2.2 Skin Protection Use clothing that provides comprehensive protection to the skin.

Hand protection Use plastic impermeable or synthetic rubber gloves.

Other skin protection

Ingestion Do not eat, drink, or smoke whilst handling the product.

8.2.2.3 Respiratory protection Ensure adequate ventilation.

Ventilation Ensure workplace is well ventilated to reduce the concentration of vapours.

8.2.2.4 Thermal hazards

8.2.3 Environmental exposure controls

9. Physical and chemical properties- C of A

9.1 Information on basic physical and chemical properties

Colour From orange yellow to deep orange.

Appearance Liquid

Odour Typical

Odour Threshold No data available

Melting Point / freezing point

Boiling point /Initial boiling point & boiling range

Flammability

Lower and upper explosion limit

Flash point °C 49°C

Auto- ignition temperature

Decomposition	
pH	No data available.
Kinematic Viscosity	
Solubility	Not soluble in water.
Partition coefficient n-octanol/ water (log value)	
Vapour Pressure	
Density and /or relative density	0.848 -0.860
Relative vapour density	
Particle characteristics	
9.2 Other information	
Specific gravity d_{20}^{20}	
Optical rotation	+88/+98
Refractive index	1.4730 -0.4760
Typical analysis of major components	



10. Stability and reactivity	
10.1 Reactivity	No data available
10.2 Chemical Stability	No data available
10.3 Possibility of hazardous reactions:	Not under normal conditions.
10.4 Conditions to avoid:	Sources of excessive heat.
10.5 Incompatible Materials:	Strong oxidising agents.
10.6 Hazardous Decomposition Products	Not under normal conditions.

11. Toxicological information	
11.1 Information on hazard classes as defined in Regulation (EC) No 1272 /2008	
Acute toxicity:	Ingestion: Can be harmful.
Skin corrosion /irritation:	Can provoke irritations.
Seriously eye damage/irritation:	Can provoke irritations.
Respiratory or skin sensitisation:	Not if used under normal conditions
Germ cell mutagenicity:	
Carcinogenicity:	
Reproductive toxicity:	
Summary of evaluation of the CMR properties:	

STOT- single exposure,	
STOT-repeated exposure:	
Aspiration hazard:	Risk of aspiration.

12. Ecological information	
12.1 Toxicity	See Section 2
12.2 Persistency degradability	No data available.
12.3 Bio accumulative potential	No data available.
12.4 Mobility in soil	
12.5 Results of PBT and vPvB Assessment	No data available.
12.6 Endocrine disrupting properties	
12.7 Other adverse effects	Ecotoxicity: No data available

13. Disposal considerations	
13.1 Waste treatment methods	Avoid disposing into drainage system and into the environment. Dispose of contents and container in accordance with local/ regional/ national and international regulations.
13.1.1. Product /Packaging disposal:	
13.1.2 Waste treatment-relevant information:	
13.1.3 Sewage disposal-relevant information:	
13.1.4 Other disposal-relevant recommendations:	

14. Transport information	
RID/ADR	
14.1 Class	3
UN Number or ID number	1169
Packing group	III
Tunnel Code	(D/E)
Hazard Labels	 
IMCO/IMDG	
Class	3
UN Number	1169
Packing Group	III

OACI/IATA	
Class	3
UN Number	1169
Packing Group	III
Instructions for Packing	309
14.2 UN proper Shipping name	
14.3 Transport hazard class(es)	
14.4 Packing group	
14.5 Environmental hazards	
14.6 Special precautions for user	
14.7 Maritime transport in bulk according to IMO instruments	

15 Regulatory information

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

I.e., EU Directives	
15.2 Chemical Safety Assessment	Seveso Category 6. Restrictions relating to the product or substances. Composition according to Annex XVII to Regulation (EU) 1907/2006 Number 40. Substances in Candidate List (Art.59 REACH) NO. Substances subject to authorisation (Annex XIV REACH) information not available.

16. Other information

(i) **Indication of Changes: Revised Safety Data Sheet Format:** From March 2019. – Section 2 and 3 have changed places, additional points added under each section in line with Regulation EC) No 1272/2008 Version 4.2 March 2021’.

(ii) **Abbreviations and acronyms:**

RID: Reglement international concernant le transport des marschandisers dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Good by Rail).

IATA-DGR: Dangerous Goods Regulations by the “International Air Transport Association” (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the ‘International Civil Aviation Organisation” (ICAO)

ADR: Accord eurpeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal Dose, 50 percent

PBT: Persistent, Bio accumulative and Toxic

vPvB: Very Persistent and very Bio accumulative

(iii) Key Literature references and sources of date.	
(iv) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 (CLP):	
Classification according to Regulation (EC) 1272/2008(CLP)	Classification procedure
(v) Relevant H-statements (number and full text):	
(vi) Training advice:	
(vii) Further information:	
Shelf life	Minimum 12 months when stored in the advised conditions.
QC requirements	
In line with general product specification. Always satisfy suitability for specific application. Retest after 6 months.	
Disclaimer:	
The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is date supplied without warranty, expressed, or implied, regarding its correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product and to assume liability for loss, injury, damage, or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification or for any given application and buyers should seek to verify their requirements and product use.	

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SAFETY DATA SHEET
According to Regulation (EC) No.1272/2008

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