

Revision Date 25.04.2012

Revision 03

SAFETY DATA SHEET CITRUS TERPENES

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name	CITRUS TERPENES
Product No.	103696, 100402, 107846, 111147, 301419, 302060
Synonyms, Trade Names	ORANGE SWEET EXTRACT, ORANGE TERPENES, CITRUS SINENSIS, CAFLON
CAS-No.	8028-48-6
EC No.	232-433-8

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

Identified uses	Fragrance
	Flavouring

1.3. Details of the supplier of the safety data sheet

Supplier Darrant Chemiclas
Unit 1 Witham Point Business Park
Wavell Drive
Lincoln
LN3 4PL
+44 1522 521864

sales@darrantchemicals.com

1.4. Emergency telephone number

Emergency Contact Number (Office Hours)

+44 1522 521864

Emergency Contact Number (Outside Office Hours)

+441522 521864

Sds No.	21103
SECTION 2: HAZARDS IDENTIFICATION	
2.1. Classification of the substance or mixture	
Classification (EC 1272/2008)	
Physical and Chemical Hazards	Flam. Liq. 3 - H226
Human health	Skin Irrit. 2 - H315;Skin Sens. 1 - H317;Asp. Tox. 1 - H304

Classification (67/548/EEC)	Environment	Aquatic Acute 1 - H400;Aquatic Chronic 1 - H410	
	Xn;R65. Xi;R38. N;R50/53. R10, R43.		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Environment

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

2.2. Label elements

CITRUS TERPENES

EC No.	232-433-8
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Label In Accordance With (EC) No. 1272/2008

Signal Word	Danger	
Hazard Statements		
	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.
Precautionary Statements	H410	Very toxic to aquatic life with long lasting effects.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
	P233	Keep container tightly closed.
	P243	Take precautionary measures against static discharge.
	P273	Avoid release to the environment.
	P261	Avoid breathing vapour/spray.
	P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
	P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P331	Do NOT induce vomiting.
	P332+313	If skin irritation occurs: Get medical advice/attention.
	P363	Wash contaminated clothing before reuse.
	P391	Collect spillage.
	P403+235	Store in a well-ventilated place. Keep cool.
	P501	Dispose of contents/container in accordance with regional regulations.

2.3. Other hazards

Not Classified as PBT/vPvB by current EU criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Product name	CITRUS TERPENES
CAS-No.	8028-48-6
EC No.	232-433-8
Composition Comments	

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

Alternative CAS No	68647-72-3
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SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Move the exposed person to fresh air at once. Get medical attention.

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Ingestion

Provide rest, warmth and fresh air. Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention immediately!

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

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

Inhalation

Coughing, chest tightness, feeling of chest pressure.

Ingestion

May cause stomach pain or vomiting.

Skin contact

Prolonged contact may cause redness, irritation and dry skin.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Specific hazards

Oxides of: Carbon.

5.3. Advice for firefighters

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Follow precautions for safe handling described in this safety data sheet. Avoid contact with skin and eyes.

Provide adequate ventilation. Do not smoke, use open fire or other sources of ignition.

6.2. Environmental precautions

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Absorb with inert, damp, non-combustible material, then flush area with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4. Reference to other sections

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

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

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Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Avoid inhalation of vapours and spray mists. Provide good ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Keep containers tightly closed. Keep in original container.

Storage Class

Flammable liquid storage.

7.3. 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

8.2. Exposure controls

Protective equipment

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

Hand protection

Nitrile gloves are recommended.

Eye protection

Wear approved safety goggles.

Other Protection

Wear rubber apron. Wear rubber footwear.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless to pale yellow.
Odour	Characteristic.
Solubility	Insoluble in water Soluble in: Alcohol
Initial boiling point and boiling range (°C)	175 - 178
Melting point (°C)	-96
Bulk Density	838 kg/m ³
Vapour density (air=1)	0.01
Vapour pressure	2.1 mm Hg 20
Flash point (°C)	46 CC (Closed cup).
Auto Ignition Temperature (°C)	237

9.2. Other information

Refractive Index	1.473
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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

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Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not determined.

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time. Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances. Strong acids.

10.6. Hazardous decomposition products

Oxides of: Carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxic Dose 1 - LD 50
>5000 mg/kg (oral rat)

Inhalation

Irritating to respiratory system. Vapours irritate the respiratory system, and may cause coughing and difficulties in breathing.

Ingestion

Harmful: may cause lung damage if swallowed.

Skin contact

Irritating to skin.

Eye contact

Irritating to eyes.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

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

12.1. Toxicity

Acute Fish Toxicity

Very toxic to aquatic organisms.

EC 50, 48 Hrs, Daphnia, mg/l	< 1.0
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12.2. Persistence and degradability

Degradability

The product is not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

12.4. Mobility in soil

Mobility:

The product is insoluble in water.

12.5. Results of PBT and vPvB assessment

CITRUS TERPENES

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority. Do not puncture or incinerate even when empty.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

General Full protective clothing should be worn when handling this product.

14.1. UN number

Un Number Road	2319
UN No. (IMDG)	2319
UN No. (ICAO)	2319

14.2. UN proper shipping name

Proper Shipping Name TERPENE HYDROCARBONS, N.O.S. (CITRUS TERPENES)

14.3. Transport hazard class(es)

ADR/RID/ADN Class	3
ADR/RID/ADN Class	Class 3: Flammable liquids.
ADR Label No.	3
IMDG Class	3
ICAO Class/Division	3
Transport Labels	

**FLAMMABLE
LIQUID
3**

14.4. Packing group

ADR/RID/ADN Packing group III
IMDG Packing group III
ICAO Packing group III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

CITRUS TERPENES

14.6. Special precautions for user

EMS	F-E, S-D
Emergency Action Code	3Y
Hazard No. (ADR)	30
Tunnel Restriction Code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 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

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply. DSEAR

Guidance Notes

CHIP for everyone HSG(108).

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. 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 with amendments.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

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

Revision Date	25.04.2012
Revision	03
SDS No.	21103
Safety Data Sheet Status	Approved.
Date	05.08.2010
Signature	Jitendra Panchal
Risk Phrases In Full	
R10	Flammable.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

	environment.
R65	Harmful: may cause lung damage if swallowed.

	CITRUS TERPENES	
Hazard Statements In Full		
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.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	