

Safety Data Sheet/Ficha de Seguridad

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

Product Name	Aceite Esencial de Naranja				
Biological Definition	The oil obtained by mechanical expression of the ripe peels of the fruits of <i>Citrus sinensis</i> (L.) Osbeck.				
INCI Name	Citrus Aurantium Dulcis Peel Oil Expressed				
Synonyms & Trade Names	Israeli orange oil, Brazilian orange oil, Florida orange oil				
Supplier	La Despensa del Jabón - San Ignacio Auzunea Etxetaldea, 1 048200 Durango. España. Tel: 944 657 841/ Fax: 941 899 765				
Reach Registration Number (According to EU Reg 1907/2006)	N/A				
FEMA No.	2825	FDA No.	182.20	CoE No.	143
CAS-No	8008-57-9	EC No.	232-433-8	EINECS No.	232-433-8

2. HAZARDS IDENTIFICATION

Classification (1999/45)	Xn+N; R10-38-43-50/53-65, S24-37-61-62
Classification (EC 1272/2008)	UN-GHS: FL 3, AH 1, SCI 2, SS 1, EH A1,C1 EU-CLP: FL 3, AH 1, SCI 2, SS 1, EH A1,C1
Label in accordance with (EC) No 1272/2008	    GHS02 GHS08 GHS07 GHS09
Signal Word	FL 3, AH 1, SCI 2, SS 1, EH A1,C1
Contains	Pinenes, limonene, linalool
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 H411 Toxic to aquatic life with long-lasting effects.
Precautionary Statements	P301/310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P331 Do NOT induce vomiting P262 Do not get in eyes, on skin or on clothing P280 Wear protective gloves/protective clothing/eye protection/face protection P273 Avoid release to the environment
Supplementary Precautionary Statements	P391 Collect spillage
PBT or vPvB according to Annex XIII	No
Adverse physio-chemical properties	Combustible but will not normally self-ignite
Adverse effects on human health	May cause sensitisation of the skin and eyes



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Limonene 90 to 95% UN-GHS: SCI 2, SS 1, EH A1,C1
Myrcene 2% UN-GHS EDI 2A, SCI 2
n-Octanal 0.25% to 1.5% UN-GHS: SCI 2, EDI 2A, EH A3,C3
n-Decanal 0.25% to 1.0% UN-GHS: ATO 5(3700), EDI 2A, EH A3,C3
Citral 0.15% to 1.5% UN-GHS: ATO 5(4950), ATD 5(2250), SCI 2, SS 1, EH A2

4. FIRST AID MEASURES

General Information	See categories below
Inhalation	Remove from exposure area to fresh air. Contact a doctor if necessary.
Ingestion	Wash mouth out with water and obtain medical advice immediately.
Skin Contact	Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage.
Eye Contact	Flush with plenty of water and seek medical advice if necessary.

5. FIRE-FIGHTING MEASURES

Extinguishing Media	Use CO ₂ , Dry Powder or Foam type extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.
Special Fire Fighting Procedures	Wear protective clothing. Avoid inhalation of vapours.
Specific Hazards	None
Protective Measures in Fire	Closed containers may build up pressure when exposed to heat and should be cooled with water spray

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Maintain good occupational and personal hygiene. Avoid contact with skin and eyes
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Environmental Precautions	Do not discharge directly into drains or soil. Keep away from surface and ground water
Spill Clean Up Methods	Soak up spillage with sand or other inert material. Transfer soaked material to suitable waste container and dispose according to prevailing regulations.

7. HANDLING AND STORAGE

Usage Precautions	Apply good manufacturing practice & industrial hygiene practices, ensuring proper workplace ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling
Storage Precautions	Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Keep air contact to a minimum

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment	  Goggles Gloves
Engineering Measures	Ensure good ventilation of working area.
Respiratory Equipment	As required
Hand Protection	Avoid all skin contact. Use chemically resistant gloves if required.
Eye Protection	Use safety glasses.
Other Protection	As required
Hygiene Measures	Wash hands with soap & water after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Mobile liquid
Colour	Orange to orange-red
Odour	Characteristic of orange peels
Relative Density	0.838 to 0.850 @ 20°C
Flash Point (°C)	48 c/c
Refractive Index	1.468 to 1.480 @ 20°C
Melting Point (°C)	Range -76.5 to -89
Boiling Point (°C)	176 to 178 @ 760mm Hg



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Vapour Pressure	0.19kPa @ 20°C
Solubility in Water @20°C	30 mg/L @ 20°C (Giv-Roure 1991)
Auto-ignition temperature (°C)	Not found

10. STABILITY AND REACTIVITY

Stability	It presents no significant reactivity hazards, by itself or in contact with water.
Conditions to Avoid	Avoid storage temperatures above 25°C
Materials to Avoid	Avoid contact with strong acids, alkalis and oxidising agents.
Hazardous Decomposition Products	Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.

11. TOXOLOGICAL INFORMATION

Acute Toxicity	Acute Oral toxicity LD ₅₀ orl-rat >5.00 gm/kg <i>FCT</i> (1974) 12,733. Acute dermal toxicity listed as Category 2 under GHS.
Skin corrosion / irritation	Category 2 under GHS & CLP
Serious eye damage / irritation	Potential for serious eye damage/irritation exists. Wear eye/face protection when handling.
Respiratory or skin sensitisation	Category 1 under GHS & CLP
Germ Cell Mutagenicity	No evidence of (in vitro) mutagenicity was observed when sweet orange peel oil was incubated with <i>Salmonella typhimurium</i> (SAL) strains TA98, TA100, TA1535, TA1537, and TA1538 with and without S-9 metabolic activation at concentrations up to 5000 microgm/plate [Heck et al., 1989 and Crebelli et al., 1990]. Negative results were obtained with sweet orange peel oil in the Rec DNA repair assay using <i>Bacillus subtilis</i> strains H17 and M45 [Kuroda et al., 1989]. : from report by the Flavor and Fragrance High Production Volume Chemical Consortia (Terpene Consortia) undated.
Carcinogenicity	No ascribable carcinogenic effect in humans. Tumour-promoting activity was observed in mouse skin exposed to orange (sweet) oil but the findings have been criticised Roe FJC and Peirce WEH. 'Tumour promotion by citrus oils: Tumours of the skin and urethral orifice in mice.' <i>JNCL</i> . 1960;24(6):1389-1403.
Reproductive toxicity	'Low reproductive toxicity potential' from report by the Flavor and Fragrance High Production Volume Chemical Consortia (Terpene Consortia) - undated.
STOT-single exposure	No data found

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STOT-repeated exposure	No data found
Aspiration hazard	Acute inhalation toxicity: Listed as category 1 under GHS
Photo-toxicity	Weakly photo-toxic. Furanocoumarin-free oils tend not to induce photo-sensitisation
Other Information	None


12. ECOLOGICAL INFORMATION

Ecotoxicity	No weight-of-evidence summary available. Limonene component known to be a beneficial factor in removal of tropospheric ozone and night-removal of nitrogen oxides.
Mobility	Not found
Persistence & Biodegradability	Biodegradability 100% in 28 days. Atmospheric photo-degradability half-life: approx. 1 hr
Bioaccumulation Potential	Not found
PBT Assessment Results	Not found
Precautions	Avoid discharge into the environment especially into waterways.

13. DISPOSAL CONSIDERATIONS

Disposal Methods	Do not release into the environment. Collect waste into suitable containers and contact hazardous chemical disposal company.
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14. TRANSPORT INFORMATION

Warning Icon	
Proper Shipping Name	EXTRACTS, AROMATIC, LIQUID (Orange oil).
UN No. Road	UN 1169



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ADR Class	Class 3
Hazard No (ADR)	30
Hazchem Code	3Y
UN No. SEA	UN 1169
IMDG Class	Class 3
IMDG Pack Gr.	Pk Gp III
EMS	F-E, S-D
UN No. AIR	UN 1169
Air Class	Class 3
Air Pack Gr.	Pk Gp III

15. REGULATORY INFORMATION

EU Directives	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 th Dec 2006 Concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 199/45/EC and repealing Council Regulation Council Regulation (EEC) No793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, and 93/105/EEC and 2000/21/EC including amendments.
Statutory Instruments	The Chemicals (Hazard Information and Packaging for Supply Regulations 2009 (S.I. 2009 No 716).
Approved Code of Practice	Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations
Guidance Notes	Workplace Exposure Limits EH40. CHIP for everyone HSG 108.

16. OTHER INFORMATION

Revision Date	12/2014
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Rev No/Repl, SDS Generated	1
Risk Phrases in Full	R10 Flammable liquid R38 Irritating to skin R43 May cause sensitisation by skin contact R50/53 Very toxic to aquatic organisms; may cause long- term damage in the aquatic environment R65 Harmful. May cause lung damage if swallowed.
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 H411 Toxic to aquatic life with long-lasting effects.
Other Information	Workplace Exposure Limits EH40. CHIP for everyone HSG 108

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.