




01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING					
Product Name		Orange sweet Essential Oil			
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			
Botanical name		Citrus sinensis L.			
Country of Origin		Brazil			
Product use		Domestic and Industrial			
Synonyms & Trade Names		Israeli orange oil, Brazilian orange oil, Florida orange oil			
Supplier		West Coast Aromatics, LLCs 2701 Conestoga Dr Unit# 106 Carson City NV 89706 Nevada, USA Tel:+1-775-387-3000			
Emergency phone number		24 hours emergency telephone number (CHEMTREC) : 800-424-9300			
Reach Registration Number <small>(According to EU Reg 1907/2006)</small>		N/A			
FEMA Number	2825	CAS EINECS	N/A	CoE Number	143
CAS Number	8008-57-9	EC Number	232-433-8	EINECS Number	232-433-8
02. HAZARDS IDENTIFICATION					
Classification (1999/45)		Xn+N; R10-38-43-50/53-65, S24-37-61-62			
GHS: 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			
Labe in accordance with (EC) No1272/2008 Labe in accordance with (US) Labe in accordance with (CA)		 <p style="text-align: center;">GHS05      GHS07      GHS08      GHS09</p>			
Signal Word		FL 3, AH 1, SCI 2, SS 1, EH A1,C1			
Contains		Pinenes, limonene, linalool			
Hazard Statements		H226 Flammable liquid and vapor 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 sensitization of the skin and eyes			



**03. COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENT CONTRIBUTING TO THE HAZARD	CONTENT
Limonene (CAS: 138-86-3) UN-GHS: SCI 2, SS 1, EH A1,C1	~ 90 to 95 %
Myrcene (CAS: 123-35-3) UN-GHS EDI 2A, SCI 2	~ 2 %
n-Octanal (CAS: 124-13-0) UN-GHS: SCI 2, EDI 2A, EH A3,C3	~ 0.25 to 1.5 %
n-Decanal (CAS: 112-31-2) UN-GHS: ATO 5(3700), EDI 2A, EH A3,C3	~ 0.25 to 1 %
Citral (CAS: 5392-40-5) UN-GHS: ATO 5(4950), ATD 5(2250), SCI 2, SS 1, EH A2	~ 0.15 to 1.5 %

**04. 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.

**05. FIRE-FIGHTING MEASURES**

Extinguishing Media	Use CO <sub>2</sub> , 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 vapors. Use breathing apparatus with independent air supply
Specific Hazards	None.
Protective Measures in Fire	Closed containers may build up pressure when exposed to heat and should be cooled with water spray

**06. ACCIDENTAL RELEASE MEASURES**



Personal Precautions	Maintain good occupational and personal hygiene. Avoid contact with skin and eyes
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.

**07. 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.



### 08. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment	  Goggles      Gloves
Engineering Measures	Ensure good ventilation of working area.
Respiratory Equipment	As required. Avoid breathing product vapor.
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

### 09. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Color	Orange to orange-red
Odor	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
Vapor Pressure	0.19kPa @ 20°C
Solubility in Water@20°C	30 mg/L @ 20°C (Giv-Roure 1991)
Optical Rotation	+94.00 to +99.00
Auto ignition temperature (°C)	Not determined


### 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
Material to Avoid	Avoid contact with strong acids, alkalis and oxidizing 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 LD50 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 sensitization	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. Tumor-promoting activity was observed in mouse skin exposed to orange (sweet) oil but the findings have been criticized Roe FJC and Peirce WEH. 'Tumor promotion by citrus oils: Tumors of the skin and urethral orifice in mice.' <i>JNCI</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
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-sensitization
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 determined
Persistence & Biodegradability	Biodegradability 100% in 28 days. Atmospheric photo-degradability half-life: approx. 1 hr
Bioaccumulation Potential	Not determined
PBT Assessment Results	No data found
Precautions	Do not discharge into the environment especially into waterways and the sea.
13. DISPOSAL CONSIDERATIONS	
Disposal Methods	Dispose of product in accordance with local, state or provincial and federal regulations. Check with local municipal authority to ensure compliance Do not release into the environment. Collect waste into suitable containers and contact hazardous chemical disposal company.



14. TRANSPORT INFORMATION	
Warning Icon	None designated
Proper Shipping Name	EXTRACTS, AROMATIC, LIQUID (not viscous), ENVIRONMENTALLY HAZARDOUS
UN No. Road	UN 1169
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 <sup>th</sup> Dec 2006 Concerning the Registration, Evaluation, Authorization 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.
US Federal Regulations	Listed on the United States TSCA (Toxic Substances Control Act) inventory
California Proposition 65	This product can expose you to myrcene, which is known to the State of California to cause cancer. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
CANADA Regulations	Listed on the Canadian DSL (Domestic Substances List)
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.
NFPA Rating 	<b>HMIS Rating</b>
	HEALTH 1
	FLAMMABILITY 2
	PHYSICAL HAZARD 0
	PERSONAL PROTECTION -



16. OTHER INFORMATION	
Revision Date	09/22
Rev No/Repl, SDS Generated	4
Risk Phrases in Full Risk Phrases in Full (cont)	R10 Flammable liquid R38 Irritating to skin R43 May cause sensitization 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 vapor 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

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