

1. IDENTIFICATION

Product Name: Egyptian Amber Fragrance
Other Names:
Product Use Description: Fragrance for Consumer Product.

Contact Information:	Organisation	Location	Telephone	Ask For
	Adelaide Moulding and Candle Supplies	7 Woodlands Terrace Edwardstown, South Australia, 5039	08 8294 0451	SDS Officer
	Poisons Information Centre		13 11 26	

2. HAZARD IDENTIFICATION

Classification of Substance of Mixture:
Eye Irritation Cat 2A
Skin Irritation Cat 2
Skin Sensitisation Cat 1
Acute Aquatic Toxicity Cat 2
Chronic Aquatic Toxicity Cat 2

Hazard Symbols: Xi N

Hazard Pictogram(s):



Signal Word: WARNING

Risk Phrases:
R36 Irritating to eyes
R38 Irritating to skin
R43 May cause sensitisation by skin contact.
R51 Toxic to aquatic organisms.
R53 May cause long-term adverse effects in the aquatic environment.

Safety Phrases:
S16 Keep away from sources of ignition – no smoking.
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S29 Do not empty into drains.
S36/37/39 Wear suitable protective clothing/gloves and eye/face protection.
S60 This material and its container must be disposed of as hazardous waste.
S61 Avoid release to the environment. Refer to special instructions/ Safety Data Sheets.

Hazard Statements:
H315 – Causes skin irritation.
H317 – May cause an allergic skin reaction.
H319 – Causes serious eye irritation.
H401 – Toxic to aquatic life.
H411 – Toxic to aquatic life with long lasting effects.

Precautionary Statements:
P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 – If eye irritation persists: Get medical advice/attention.
P362 – Take off contaminated clothing and wash before reuse.

P370 + P378 – In case of fire: Use foam, carbon dioxide (CO₂), or dry powder.
P391 – Collect Spillage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

CAS No.	Description	Concentration	Classification
84-66-2	diethyl benzene-1,2-dicarboxylate	30 - 60	-
165184-98-5	hexyl cinnamic aldehyde	< 10	H317, H400, H411
54464-57-2	1-(1,2,3,4,5,6,7,8- octahydro-2,3,8,8-tetramethyl-2- naphthyl)ethan-1-one	<10	H315, H317, H401, H411
106-22-9	3,7-dimethyl-6-octen-1-ol	<10	H315, H317, H319
106-24-1	3,7-dimethyl-2,6-octadien-1-ol	<10	H315, H317, H318, H401
65113-99-7	3-methyl-5-(2,2,3-trimethyl-1-cyclopent-3-enyl)pentan-2-ol	<10	H316, H317, H319, H401, H411
5989-27-5	(R)-p-mentha-1,8-diene	<10	H226, H315, H317, H400, H410

4. FIRST AID MEASURES

Ingestion:	Give plenty of water to drink. Seek medical attention if necessary.
Skin Contact:	Remove any contaminated clothing or shoes. Wash skin with soap and water. If irritation persists obtain medical advice.
Eye Contact:	Flush immediately with clean water for at least 15 minutes. Contact a physician if irritation persists.
Inhalation:	Remove from the exposure to fresh air. Contact a physician, as necessary.

5. FIRE FIGHTING MEASURES

Fire & Explosion Hazard:	In case of fire use foam, carbon dioxide (CO ₂), or dry powder. Keep containers cool by spraying with water if exposed to fire. Wear self-contained breathing apparatus and protective suit. Dispose of fire debris and contaminated extinguishing water in accordance with local regulations. Do not use full water jet.
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6. ACCIDENTAL RELEASE MEASURES

Spills & Leaks:	Eliminate all ignition sources. Ventilate area. Contain spill and recover free product. Do not discharge product into drains, surface water or ground water. Absorb remainder on vermiculite or other suitable non-flammable absorbent material. Use of self-contained breathing apparatus is recommended for any major chemical spills. Place material and absorbent into sealed containers and dispose of in accordance with current applicable laws and regulation.
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7. HANDLING AND STORAGE

General Precautions:	Care should be taken to observe any precautions given on the container.
Handling:	Wash thoroughly after handling. Remove contaminated clothing and wash before re-use. Use only in a well-ventilated area. Ground and bond containers when transferring material. Use spark-proof tools and explosion-proof equipment. Avoid contact with eyes, skin, and clothing – always wear safety goggles. Empty containers retain product residue (liquid and/or vapour) and can be hazardous. Do

not re-use empty containers. Avoid contact with heat, sparks, and flame. Do not pressurise, cut, weld, braze, solder, drill, grind, or expose containers to heat, sparks, or open flame.

Storage: Store in a tightly closed container. Keep away from heat, sparks, flame, and sources of light. Store in a cool, dry, well-ventilated area away from incompatible substances.

Other Precautions: Good manufacturing practices dictate that an eyewash fountain and/or safety shower should be available in the work area. Smoking and naked flames should not be permitted in areas where product is handled.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace exposure limits:

CAS	Ingredient	Description	ppm	mg/m3	Reference
84-66-2	diethyl benzene-1,2-dicarboxylate	-	-	5	-
5989-27-5	(R)-p-mentha-1,8-diene	-	-	28	-
165184-98-5	hexyl cinnamic aldehyde	-	-		-

Exposure Controls

Engineering Controls: Not available.

Fire & Explosion Hazard: Keep away from heat and open flames.

Respiratory Protection: Use NIOSH approved respirator.

Ventilation Protection: Use adequate general or local exhaust ventilation.

Eye Protection: Use goggles or face shields.

Skin Protection: Wear appropriate protective gloves to prevent skin exposure.

Clothing Protection: Wear appropriate protective clothing to prevent skin exposure.

Other Information: Avoid inhalation and contact with skin and eyes. Good hygiene practices should be used. Wash after any contact, before breaks and meals or using the toilet, and at the end of the work period. Contaminated clothing and shoes should be cleaned before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid, colourless to yellow

Aroma/Odour: Perfumistic

pH: No data available.

Melting Point: No data available.

Boiling Point: No data available.

Flash Point: >100°C (closed cup)

Flammability (Solid, gas): No data available.

Upper/lower flammability

or explosive limits: No data available.

Evaporation Rate: No data available.

Vapor pressure: No data available.

Vapor Density: No data available.

Specific Gravity: 1.03 – 1.06

Solubility: Insoluble in water.

Log Pow: No data available.

Auto Ignition Temp: No data available.

Decomposition temperature: No data available.

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal temperatures and pressures.
Conditions to Avoid:	Heating, pressurising, and impacting product.
Incompatibles:	Avoid contact or contamination with strong acids, alkalis, oxidising and reducing agents.
Hazardous Combustion or Decomposition Products:	No hazardous decomposition products known.
Hazardous Reactions:	Has not been reported.

11. TOXICOLOGICAL INFORMATION

Acute & Chronic health effects:	Chronic, prolonged exposure to the product concentrate may result in irreversible effects.
Possible routes of exposure:	
Ingestion:	Accidental swallowing is unlikely in the industrial setting. Harmful if swallowed.
Skin/eye exposure:	Contact with skin and eyes may result in irritation.
Inhalation:	Where this material is used at elevated temperatures vapour may cause irritation to mucous membranes and respiratory tract, headache, and nausea.
Range of effects following exposure:	Not available.
Dose concentration or conditions of exposure likely to cause injury:	Not available.
Delayed effects:	Not available.
Relevant negative data:	None available.

Information about hazardous Ingredients in the Mixture:

Ingredient	CAS	LD50/ATE Oral	LD50/ATE Dermal	LC50/ATE Inhalation	LC50 Route
diethyl benzene-1,2-dicarboxylate	84-66-2	8600	>10000	-	-
hexyl cinnamic aldehyde	165184-98-5	3100	>3000	-	-
1-(1,2,3,4,5,6,7,8- octahydro-2,3,8-tetramethyl-2- naphthyl)ethan-1-one	54464-57-2	>5000	>5000		
3,7-dimethyl-6-octen-1-ol	106-22-9	3450	2650	-	-
3,7-dimethyl-2,6-octadien-1-ol	106-24-1	>3600	>5000	-	-
3-methyl-5-(2,2,3-trimethyl-1-cyclopent-3-enyl)pentan-2-ol	65113-99-7	6700	-	-	-
(R)-p-mentha-1,8-diene	5989-27-5	>5000	>5000	-	-

12. ECOLOGICAL INFORMATION

diethyl benzene-1,2-dicarboxylate: Ecotoxicity:

LC50 - Oncorhynchus mykiss (rainbow trout) - 12.00 mg/l - 96 h

NOEC - Lepomis macrochirus (Bluegill) - 1.65 mg/l - 96 h

LC50 Daphnia magna (Water flea) – 90.0 mg/l - 48 h

EC50 Desmodesmus subspicatus (Scenedesmus subspicatus) - 23 mg/l - 72 h

Persistence and degradability:

Biodegradability: aerobic - Exposure time 28d, Result: > 94.6 % - Readily biodegradable.

Bioaccumulation Lepomis macrochirus (Bluegill) - 21 d -0.00942 mg/l

hexyl cinnamic aldehyde:

Acute aquatic toxicity:

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC₅₀, 96 hours: 1.7 mg/l, Pimephales promelas (Fat-head Minnow) OECD 203. Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.247 mg/l, Daphnia magna OECD 202.

Acute toxicity - aquatic plants NOEC, 72 hours: 0.065 mg/l, Desmodesmus subspicatus OECD 201.

Acute toxicity microorganisms NOEC, 28 days: 32 mg/kg, Lumbriculus variegatus OECD 225.

Chronic aquatic toxicity:

Aquatic invertebrates NOEC, 21 days: 0.069 mg/l, Daphnia magna OECD 211.

Persistence and degradability: the substance is readily biodegradable.

Biodegradation Water - Degradation 97%: 28 days OECD 301 F.

Bioaccumulative potential: no data available on bioaccumulation.

Partition coefficient log K_{ow}: 5.3

Mobility: The product is insoluble in water.

Adsorption/desorption coefficient Soil - Log K_{oc}: 4.2 @ 25°C/77°F OECD 121.

1-(1,2,3,4,5,6,7,8- octahydro-2,3,8,8- tetramethyl-2- naphthyl)ethan-1-one:

Aquatic toxicity

Lepomis macrochirus, LC₅₀ (96 h): 1.3 mg/L, Method: equivalent or similar to OECD Guideline 203 Daphnia magna,

EC₅₀ (48 h): 1.38 mg/L, Method: equivalent or similar to OECD Guideline 202

Aquatic Chronic toxicity:

30d-LOEC and 30d-LC₅₀ for body weight and length were found to be 0.29 and >0.30 mg/l respectively, in a study conducted on Danio rerio (fish) according to international guidelines (OPPTS 85.1400 / OECD Guideline 210) under GLP. 30d-NOEC was the NOEC for body weight and length.

21d-NOEC for reproduction of OTNE to Daphnia magna : 0.028 mg/l, OECD TG 211 (OPPTS 850.1300) in compliance with GLP

Persistence and degradability

Not readily biodegradable: 0% (BOD) / 11% (analysed test material concentration) in 28 days (OECD TG 301C).

Biodegradation in soil: Half-life in soil: 6 d at 22 °C

The substance is photodegradable in air. The rate constant for the gas phase reaction of OH radicals was estimated at 9.85*10⁻¹¹ cm³molecule⁻¹s⁻¹. Assuming a daylight period of 12 h and 2.0*10⁶ OH cm⁻³, the estimated atmospheric half-life is 1.4 hours. These data suggest that the atmospheric life time of substance is sufficiently short that it will not undergo long-range transport to any significant extent.

Bioaccumulative potential

Bioconcentration factor (BCF)

BCF: 391 (OECD TG 305, normalised to 5% fat)

Partition coefficient n-octanol/water (log P_{OW})

Log K_{ow} (P_{ow}): 5.65 at 30 °C, method: OECD Guideline 117 (HPLC method) Based on the n-octanol/water partition coefficient accumulation in organisms is expected.

Mobility in soil

Log K_{oc}: 4.12

3,7-dimethyl oct-6-en-1-ol:

LC₅₀ Leuciscus idus (Golden orfe) - 10.0 - 22.0 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates EC₅₀ - Daphnia - 17.0 mg/l - 48 h

EC₅₀ Algae 2.4 mg/l - 72 h

Further information on ecology:

Chemical Oxygen Demand (COD) 2,050 mg/g

Theoretical oxygen demand 2,961 mg/g

Ratio BOD/ThBOD >60%

Biodegradability Result: Readily biodegradable.

For 3,7-dimethyl-2,6-octadien-1-ol:

Static test LC₅₀ - Danio rerio (zebra fish) - ca. 22 mg/l - 96 (OECD Test Guideline 203)

Immobilization EC₅₀ - Daphnia magna (Water flea) - 10.8 mg/l - 48 h (OECD Test Guideline 202)

Growth inhibition EC₅₀ - Desmodesmus subspicatus (green algae) - 13.1 mg/l - 72 h

Biodegradability aerobic Chemical oxygen demand - Exposure time 3 d Result: 80 - 100 % - Readily biodegradable. (OECD Test Guideline 301A)

Bioaccumulative potential: No data available

3-methyl-5-(2,2,3-trimethyl-1-cyclopent-3-enyl)pentan-2-ol:

EC₅₀ Pseudokirchnerella subcapitata

> 17 mg/l, 72 hours Method: OECD Test Guideline 201

> 17 mg/l, 96 hours Method: OECD Test Guideline 201

8.2 mg/l, 96 hours Method: OECD Test Guideline 201

7.1 mg/l, 72 hours Method: OECD Test Guideline 201

EC50 Water flea (*Daphnia magna*) 1.1 mg/l/48hrs Method: OECD Test Guideline 202
LC50 *Pimephales promelas* 2.3 mg/l/96hrs Method: OECD Test Guideline 203
Mobility in soil: No data available
Bioconcentration factor (BCF): 117
For p-mentha-1,8-diene:
Flow-through test LC50 *Pimephales promelas* (fathead minnow) 0.72 mg/l - 96.0 h
Immobilization EC50 *Daphnia magna* (Water flea) 0.36 mg/l - 48h
LC50 *Eisenia foetida* Savigny (Earthworm) 6.0 ppm/48hr
Sludge treatment EC50 3.94mg/l (OECD Test Guideline 209)
Persistence and degradability: 71% - Readily biodegradable (OECD Test Guideline 301B).
Bioaccumulative potential: No data available
Mobility in soil: No data available

benzyl 2-hydroxybenzoate:

LC50 for Fish: 1.03 mg/l - 96 h
EC50 for *Daphnia*: 1.70 mg/l - 48 h
LC50 Algae: 1.70 mg/l - 24 h
Biodegradability: Readily biodegradable (OECD 301 F)
For 1,2-benzopyrone:
LC50 Fish 2.94 mg/l - 96h
EC50 *Daphnia magna* – 24.3- <36.9 mg/l - 48h
EC50 Algae 1.45mg/l - 72h
Persistence and degradability:
Readily degradation (GLP testing report)
Bioaccumulative potential:
No bioaccumulative potential due to low Kow (Logkow=1.39).
Mobility in soil: Not likely due to low Kow (Logkow=1.39).
Results of PBT&vPvB assessment: The substance is not considered a PBT/vPvB.
Bioconcentration factor (BCF) <10 *Leuciscus idus* (Golden orfe) 3 days

General

Ecotoxicity: No specific data available. Avoid release into environment.

Persistence and degradability: No specific data available. Avoid release into environment.

Bioaccumulative potential: No specific data available. Avoid release into environment.

Mobility in soil: No specific data available. Avoid release into environment.

13. DISPOSAL CONSIDERATIONS

Disposal: Do not release into any sewers, on the ground, or into any body of water.
For unused & uncontaminated product, the preferred options include sending to a licensed incinerator or other thermal destruction device. Disposal should be in accordance with federal, state, and local regulations.

14. TRANSPORT INFORMATION

UN Number: Not relevant

UN Proper Shipping Name: Not relevant

Class: Not relevant

Packing Group: Not relevant

Hazchem Code: Not relevant

15. REGULATORY INFORMATION

All ingredients listed on AICS.

16. OTHER INFORMATION

Entire text of the H and P phrases mentioned in section 2 & 3

HAZARD STATEMENTS:

H315 – Causes skin irritation.
H317 – May cause an allergic skin reaction.
H319 – Causes serious eye irritation.
H401 – Toxic to aquatic life.
H411 – Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

P261 – Avoid breathing fumes and vapours.
P264 – Wash 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/eye protection/face protection.
P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 – If eye irritation persists: Get medical advice/attention.
P362 – Take off contaminated clothing and wash before reuse.
P370 + P378 – In case of fire: Use foam, carbon dioxide (CO₂), or dry powder.
P391 – Collect Spillage.

Abbreviations and acronyms

AICS: Australian Inventory of Chemical Substances
CAS: Chemical Abstracts Services
GHS: Globally Harmonised System
LD50: Median Lethal Dose (50%)
LC50: Median Lethal Concentration (50%)
NICNAS: National Industrial Chemicals Notification and Assessment Scheme
NIOSH: National Institute of Occupational Safety and Health
STEL: Short Term Exposure Limits
TWA: Time Weighted Average
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UN: United Nations

Key literature references and sources for data

Prepared in Accordance with:

Work Health and Safety Regulations 2011
Globally Harmonised System of Classification and Labelling of Chemicals (GHS) (United Nations)

Sources of Data:

List of Designated Hazardous Substances
Approved Criteria for Classifying Hazardous Substances
Safe Work Australia - Hazardous Chemical Information System (HCIS)
Australian Dangerous Goods Code
Australian Inventory of Chemical Substances (AICS) (NICNAS)
Exposure Standards (Workplace Exposure Standards for Airborne Contaminants)

Further Information

The information in this safety data sheet is to the best of our knowledge true and accurate, but all data, instructions, and recommendations and/or suggestions are made without guarantee.

The Material Safety Data Sheet is intended to provide information for a health and safety assessment of the material. This document is not intended for quality assurance purposes.