1. IDENTIFICATION

Product Name: Chanel No.5 Type 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:
Flammable Liquid Cat 4
Eye Irritation Cat 2A
Skin Irritation Cat 2
Skin Sensitizer Cat 1
Reproductive toxicity Cat 2 Long-term (Chronic) aquatic Cat 2
Short-term (Acute) Aquatic Cat 2

Hazard Symbols: Xn Xi N

Risk Phrases:
R36/38 Irritating to eyes and skin.
R43 May cause sensitisation by skin contact.
R51 Toxic to aquatic organisms.
R53 May cause long-term adverse effects in the aquatic environment.
R63 Possible risk of harm to the unborn child.

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 eves rinse immediately and seek medical advice.
S29 Do not empty into drains.
S37/39 Wear suitable 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 Pictogram(s):

Signal Word: WARNING

Hazard Statements (s):
H227 – Combustible liquid.
H315 – Causes skin irritation.
H317 – May cause an allergic skin reaction.
H319 – Causes serious eye irritation.
H361 – Suspected of damaging fertility or the unborn child.
H411 – Toxic to aquatic life with long lasting effects.
H401 – Toxic to aquatic life.

Precautionary Statements(s): 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.
P308 + P313 – IF exposed or concerned: Get medical advice/attention.
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

Other Hazards: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

CAS No.	Description	GHS Classification	%
84-66-2	diethyl benzene-1,2-dicarboxylate	30 - 60	-
63500-71-0	4-methyl-2-(2-methylpropyl)oxan-4-ol	< 10	H313, H315, H317, H319
118-58-1	benzyl 2-hydroxybenzoate	< 10	H317, H319, H412
65113-99-7	3-methyl-5-(2,2,3-trimethyl-1-cyclopent-3-enyl)pentan-2-ol	< 10	H316, H317, H319, H401, H411
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, H315, H410
5989-27-5	(R)-p-mentha-1,8-diene	< 10	H226, H315, H317, H400, H410
91-64-5	1,2-benzopyrone	< 10	H302, H317, H402, H412
97-53-0	4-allyl-2-methoxy phenol	< 10	H317, H319
97-54-1	2-methoxy-4-prop-1-en-2-yl phenol	< 10	H302, H312, H315, H317, H319
104-93-8	4-methylanisole	< 10	H226, H302, H315, H361

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 fine water spray, foam, carbon dioxide (CO2), 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.

6. ACCIDENTAL RELEASE MEASURES

Spills & Leaks: Eliminate all ignition sources. Ventilate area. Contain 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.

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:

Ingredient	CAS	ppm	mg/m3	Reference
diethyl benzene-1,2-dicarboxylate	84-66-2	-	10mg/m3 TWA	-
		-	-	-
hexyl cinnamic aldehyde	165184-98-5	-	TWA 5mg/m3	-
		-	-	-
(R)-p-mentha-1,8-diene d-Limonene	(R)-p-mentha-1,8-diene	-	Maximum workplace concentration 5mL/m3, 28mg/m3	-
		-	-	-

Exposure Controls

Engineering Controls: Not available.

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

Respiratory Protection: Use NIOSH approved respirator.

Eye Protection: Use adequate general or local exhaust ventilation.

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
Colour: Colourless to yellow
Aroma/Odour: Perfumistic.
pH: No data available
Melting Point: No data available

Boiling point:	No data available
Flash Point (closed cup test):	92°C
Flammability (Solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Evaporation Rate:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Specific Gravity:	1.03 – 1.06
Solubility(ies):	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: Avoid extreme heat. Heat, flames, ignition sources and incompatibles.

Incompatibles: Avoid contact or contamination with strong acids, alkalis, oxidising and reducing agents.

Hazardous Decomposition Products: No hazardous decomposition products known.

Hazardous Reactions: Has not been reported.

11. TOXICOLOGICAL INFORMATION

This mixture has not been tested as a whole for health effects. The health effects have been calculated using the methods outlined in the UN GHS.

Assumed Toxicity Value (LC50 or ATE) for Acute Inhalation Toxicity: Not Available
Inhalation Route: Not Available

Information about hazardous Ingredients in the Mixture:

Ingredient	CAS	LD50/ATE Oral	LD50/ATE Dermal	LC50/ATE Inhalation
diethyl benzene-1,2-dicarboxylate	84-66-2	8600	>10000	4640
4-methyl-2-(2-methylpropyl)oxan-4-ol	63500-71-0	>5000	>2000	-
benzyl 2-hydroxybenzoate	118-58-1	2227	14150	-
3-methyl-5-(2,2,3-trimethyl-1-cyclopent-3-enyl)pentan-2-ol	65113-99-7	6700	-	-
hexyl cinnamic aldehyde	165184-98-5	3100	>3000	>2100
1-(1,2,3,4,5,6,7,8- octahydro-2,3,8,8-tetramethyl-2- naphthyl)ethan-1-one	54464-57-2	>5000	>5000	-
(R)-p-mentha-1,8-diene	5989-27-5	>5000	>5000	-
1,2-benzopyrone	91-64-5	196	-	-
4-allyl-2-methoxy phenol	97-53-0	>2000	-	-
2-methoxy-4-prop-1-en-2-yl phenol	97-54-1	1560	-	-
4-methylanisole	104-93-8	1920	>4850	-

12. ECOLOGICAL INFORMATION

diethyl benzene-1,2-dicarboxylate:

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
Bioconcentration factor (BCF): 117

4-methyl-2-(2-methylpropyl)oxan-4-ol:

EC50 Daphnia 803 mg/l -48 hours OECD 202
EC50 Fish 354 mg/l - 96 hours OECD 203
Persistence and degradability: Readily biodegradability (OECD 301 C): Not biodegradable
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)

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

hexyl cinnamic aldehyde:

Acute aquatic toxicity:
$LE(C)_{50}$ 0.1 < L(E)C50 ≤ 1
M factor (Acute) 1
Acute toxicity - fish LC_{50}, 96 hours: 1.7 mg/l, Pimephales promelas (Fat-head Minnow) OECD 203.
Acute toxicity - aquatic invertebrates EC_{50}, 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 Kow: 5.3
Mobility: The product is insoluble in water.
Adsorption/desorption coefficient Soil - Log Koc: 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*10-11cm3molecule-1s-1. Assuming a daylight period of 12 h and 2.0*106OH 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 PO/W)
Log Kow (Pow): 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 Koc: 4.12

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

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

For 4-allyl-2-methoxy phenol:

LC50 Danio rerio (zebra fish) 13mg/L – 96h
EC50 Daphnia 1.13mg/L 48h
Persistence and degradability: Readily Biodegradable
Bioaccumulative potential: No data available
Mobility in soil: No data available
Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

For 4-methylanisole:

LC50 Leuciscus idus (Golden orfe) 68.2 mg/l - 96 h
EC50 Daphnia magna (Water flea) 27 mg/l - 48 h
EC50 Desmodesmus subspicatus (Scenedesmus subspicatus) - > 500 mg/l - 72 h
Biodegradability aerobic - Exposure time 28 d Result: 30 - 40 % - Not readily biodegradable.
(OECD Test Guideline 301F)
Bioaccumulative potential: No data available
Mobility in soil: No data available

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

Transport Hazard Class(es): Not relevant

Packing Group: Not relevant

Environmental Hazards: 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:
H227 – Combustible liquid.
H315 – Causes skin irritation.
H317 – May cause an allergic skin reaction.
H319 – Causes serious eye irritation.
H361 – Suspected of damaging fertility or the unborn child.
H401 – Toxic to aquatic life.
H411 – Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:
P202 – Do not handle until all safety precautions have been read and understood.
P210 – Keep away from flames and hot surfaces. – No smoking. 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.
P281 – Use personal protective equipment as required.
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.
P308 + P313 – IF exposed or concerned: Get medical advice/attention.
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 (CO_2), or dry powder.
P391 – Collect Spillage
P403 + P235 – Store in a well-ventilated place. Keep cool.

Abbreviations & Acronyms

Abbreviation	Meaning
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
UN	United Nations

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.