

1. IDENTIFICATION

Product Name: Mysterious 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: Eye Damage / Irritation (Category 2)
Eye Irritation (Category 2A)
Sensitization - Skin (Category 1)
Skin Sensitisation (Category 1)
Skin Corrosion / Irritation (Category 3)
Flammable Liquid, Hazard (Category 4)
Acute Toxicity - Oral (Category 5)
Hazardous to the Aquatic Environment - Acute Hazard Category 2
Hazardous to the Aquatic Environment - Long-term Hazard Category 2
H227, Combustible liquid.
H303, May be harmful if swallowed.
H315, Causes skin irritation.
H316, Causes mild 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.

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 (s): H227, Combustible liquid.
H303, May be harmful if swallowed.

H315 – Causes skin irritation.

H316, Causes mild 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(s): P210, Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
P261, Avoid breathing vapour or dust.
P264, Wash hands and other contacted skin 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.
P302/352, IF ON SKIN: Wash with plenty of soap and water.
P305/351/338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312, Call a POISON CENTRE or doctor/physician if you feel unwell.
P333/313, If skin irritation or rash occurs: Get medical advice/attention.
P337/313, If eye irritation persists: Get medical advice/attention.
P362 – Take off contaminated clothing and wash before reuse.
P363, Wash contaminated clothing before reuse.
P370/378, In case of fire: Use carbon dioxide, dry chemical, foam for extinction.
P391, Collect spillage.
P403/235, Store in a well-ventilated place. Keep cool.
P501, Dispose of contents/container to approved disposal site, in accordance with local regulations.

Other Hazards: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

EC No	CAS No	Description	GHS Classification	Concentration
-	84-66-2	Diethyl benzene-1,2-dicarboxylate	-	30-60%
204-402-9	120-51-4	Benzyl benzoate	Acute Tox. 4-Acute Tox. 5-Aquatic Acute 1-Aquatic Chronic 2;H302-H313-H400-H411	10-<20%
204-464-7	121-32-4	Ethyl vanillin	Acute Tox. 5-Eye Irrit. 2B-Aquatic Acute 3;H303-H320-H402	5-<10%
202-086-7	91-64-5	Coumarin	Acute Tox. 4-Skin Sens. 1B-Aquatic Acute 3;H302-H317-H402	5-<10%
202-589-1	97-53-0	Eugenol	Acute Tox. 5-Skin Irrit. 3-Eye Irrit. 2Askin Sens. 1B-Aquatic Acute 2;H303-H316-H317-H319-H401	5-<10%
-	165184-98-5	Hexyl cinnamic aldehyde	H317, H400, H411	5-<10%
	54464-57-2	1-(1,2,3,4,5,6,7,8- octahydro-2,3,8,8- tetramethyl-2-naphthyl)ethan-1-one	H315, H317, H401, H411	5-<10%
-	106-22-9	3,7-dimethyl-6-octen-1-ol	H315, H317, H319	5-<10%
-	106-24-1	3,7-dimethyl-2,6-octadien-1-ol	H315, H317, H318, H401	5-<10%
-	65113-99-7	3-methyl-5-(2,2,3-trimethyl-1-cyclopent-3-enyl)pentan-2-ol	H316, H317, H319, H401, H411	5-<10%
-	5989-27-5	(R)-p-mentha-1,8-diene	H226, H315, H317, H400, H410	5-<10%
225-582-5	4940-11-8	Ethyl maltol	Acute Tox. 4;H302	1-<5%
204-409-7	120-57-0	Piperonal	Acute Tox. 5-Skin Sens. 1B-Aquatic Acute 2;H303-H317-H401	1-<5%

201-291-9	80-56-8	alpha Pinene	Flam. Liq. 3-Acute Tox. 5-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1;H226-H303-H304-H315-H317-H410	1-<5%
203-219-1	104-61-0	gamma-Nonalactone	Skin Irrit. 3;H316	1-<5%
204-872-5	127-91-3	beta-Pinene	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1BAsp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1;H226-H304-H315-H317-H410	0.1-<1%
201-134-4	78-70-6	Linalool	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 3; H227-H303-H315-H317-H319-H402	0.1-<1%
227-813-5	5989-27-5	Limonene	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1BAsp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1;H226-H304-H315-H317-H410	0.1-<1%
209-235-5	562-74-3	4-Carvomenthenol	Flam. Liq. 4-Acute Tox. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Aquatic Acute 3; H227-H302-H313-H315-H319-H402	0.1-<1%
204-881-4	128-37-0	Butylated hydroxytoluene	Aquatic Acute 1-Aquatic Chronic 1;H410	0.1-<1%

Substances with Community workplace exposure limits, not listed above:

Name	CAS	EC	%
Butylated hydroxytoluene	128-37-0	204-881-4	0.20%

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:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Inhalation:	Remove from the exposure to fresh air. Contact a physician, as necessary.
If Exposed or Concerned:	Get medical advice/attention. Call a POISON CENTRE or doctor/physician if you feel unwell.
Most important symptoms and effects:	May be harmful if swallowed. Causes mild skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.
Indication of any immediate Medical attention and special treatment needed:	None expected.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Carbon dioxide, dry chemical, foam.
Hazardous Combustion Products:	In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.
Advice for Fire Fighters:	In case of insufficient ventilation, wear suitable respiratory equipment. 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.
Hazchem Code:	NA

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Protective Equipment: Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

Environmental Precautions: Keep away from drains, surface and ground water, and soil.

Methods and Suitable materials for containment and cleaning up: Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

7. HANDLING AND STORAGE

Safe Handling Precautions: Keep away from heat, sparks, open flames, and hot surfaces. - No smoking. Use in accordance with good manufacturing and industrial hygiene practices. Use in areas with adequate ventilation. Do not eat, drink, or smoke when using this product. 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. Do not pressurise, cut, weld, braze, solder, drill, grind, or expose containers to heat, sparks, or open flame.

Storage conditions: Store in a well-ventilated place. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Specific end use(s): Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace exposure limits:

Ingredient	CAS	EC	Description	ppm	mg/m3	Reference
Butylated hydroxytoluene	128-37-0	204-881-4	Long-term exposure limit (8-hour TWA reference period)	-	-	-
			Short-term exposure limit (15-minute reference period)	-	-	-
diethyl benzene-1,2-dicarboxylate	84-66-2	-	-	-	5	-
(R)-p-mentha-1,8-diene	5989-27-5	-	-	-	28	-
hexyl cinnamic aldehyde	165184-98-5	-	-	-	-	-

Exposure Controls

Eye / Skin Protection Wear protective gloves/eye protection/face protection.

Respiratory Protection Ensure adequate and ongoing ventilation is maintained in order to prevent build up of excessive vapour and to ensure occupational exposure limits are adhered to. If appropriate, and depending on your patterns and volumes of use, the following engineering controls may be required as additional protective measures:

- Isolate mixing rooms and other areas where this material is used or openly handled. Maintain these areas under negative air pressure relative to the rest of the plant.
- Employ the use of Personal protective equipment - an approved, properly fitted respirator with organic vapour cartridges or canisters and particulate filters.
- Use local exhaust ventilation around open tanks and other open sources of potential exposures in order to avoid excessive inhalation, including places where this material is openly weighed or measured. In addition, use general dilution ventilation of the work area to eliminate or reduce possible worker exposures.
- Use closed systems for transferring and processing this material.

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

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:	Liquid
Colour:	Colourless, faint yellow
Aroma/Odour:	Sweet, vanilla, caramel, perfumistic
Relative density:	1.03-1.06
Refractive index:	Not determined
Flash Point (closed cup test):	>100°C (closed cup)
Specific Gravity (20°C/20°C):	Not determined
pH:	Not determined
Initial boiling point/range:	Not determined
Vapour pressure:	Not determined
Solubility(ies):	Not determined

10. STABILITY AND REACTIVITY

Reactivity Hazards:	Presents no significant reactivity hazard, by itself or in contact with water.
Chemical Stability:	Good stability under normal storage conditions.
Hazardous Reactions:	Not expected under normal conditions of use.
Conditions to Avoid:	Avoid extreme heat, pressurising, and impacting product.
Incompatibles:	Avoid contact with strong acids, alkalis, or oxidising agents and reducing agents.
Hazardous Decomposition Products:	Not expected.

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.

May be harmful if swallowed.

Causes mild skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Where this material is used at elevated temperatures vapour may cause irritation to mucous membranes and respiratory tract, headache, and nausea.

Assumed Toxicity Value (LD50 or ATE) for Acute Oral Toxicity: 3237

Assumed Toxicity Value (LD50 of ATE) for Acute Dermal Toxicity: >5000

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	EC	LD50/ATE Oral	LD50/ATE Dermal	LC50/ATE Inhalation	LC50
Benzyl benzoate	120-51-4	204-402-9	1500	4000	Not Available	Not Available
Coumarin	91-64-5	202-086-7	500	Not Available	Not Available	Not Available
Ethyl maltol	4940-11-8	225-582-5	1200	Not Available	Not Available	Not Available
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-2,3,8,8- 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 Desmodemus 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, Desmodemus 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

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

Toxicity:	Very toxic to aquatic life with long lasting effects.
Persistence and degradability:	Not Available.
Bioaccumulative potential:	Not Available.
Mobility in soil:	Not Available.
PBT and vPvB Assessment:	This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.
Other Adverse Effects:	Not Available

13. DISPOSAL CONSIDERATIONS

Disposal: Dispose of in accordance with local regulations. Avoid disposing into drainage systems, any sewers, on the ground, into any body of water and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

UN Number: UN3082

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alpha Pinene, Benzyl benzoate)

Transport Hazard Class(es): 9

Sub Risk: -

Packing Group: III

Environmental Hazards: This is an environmentally hazardous substance.

Special Precautions for user: None additional

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not Applicable

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations Specific for the substance or mixture. All ingredients listed on AICS.

Water Hazard Class (WGK) 3

Chemical Safety Assessment A Chemical Safety Assessment has not been carried out for this product.

16. OTHER INFORMATION

Concentration % Limits: EH A2=14.95% EH A3=1.48% EH C2=58.28% EH C3=5.83% SCI 3=21.66% EDI 2A=79.37% SS 1=15.38%

Total Fractional Values: EH A2=6.69 EH A3=67.41 EH C2=1.72 EH C3=17.16 SCI 3=4.62 EDI 2A=1.26 SS 1=6.50

Further Information

Abbreviation	Meaning
Acute Tox. 3	Acute Toxicity – Oral Category 3
Acute Tox. 3	Acute Toxicity – Dermal Category 3
Acute Tox. 3	Acute Toxicity – Inhalation Category 3
Acute Tox. 4	Acute Toxicity – Oral Category 4
Acute Tox. 4	Acute Toxicity – Dermal Category 4
Acute Tox. 5	Acute Toxicity – Oral Category 5
Acute Tox. 5	Acute Toxicity – Dermal Category 5
AICS	Australian Inventory of Chemical Substances
Aquatic Acute 1	Hazardous to the Aquatic Environment - Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the Aquatic Environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the Aquatic Environment - Acute Hazard Category 3
Aquatic Chronic 1	Hazardous to the Aquatic Environment - Long-term Hazard Category 1
Aquatic Chronic 2	Hazardous to the Aquatic Environment - Long-term Hazard Category 2
Aquatic Chronic 3	Hazardous to the Aquatic Environment - Long-term Hazard Category 3
Asp. Tox 1	Aspiration Hazard Category 1
CAS	Chemical Abstracts Services

Carc. 1B	Carcinogenicity Category 1B
Eye Irrit. 2A	Eye Damage / Irritation Category 2
Eye Irrit. 2B	Eye Damage / Irritation Category 2B
Flam. Liq. 3	Flammable Liquid, Hazard Category 3
Flam. Liq. 4	Flammable Liquid, Hazard Category 4
Flam. Sol. 2	Flammable Solid, Hazard Category 2
GHS	Globally Harmonised System
H226	Flammable liquid and vapour.
H227	Combustible liquid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects (exposure route).
H350	May cause cancer (exposure route).
H361	Suspected of damaging fertility or the unborn child (exposure route).
H371	May cause damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
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
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing vapour or dust.
P264	Wash hands and other contacted skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
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.
P301/310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301/312	IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.
P302/352	IF ON SKIN: Wash with plenty of soap and water.
P303/361/353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304/340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308/313	IF exposed or concerned: Get medical advice/attention.
P311	Call a POISON CENTRE or doctor/physician.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
P330	Rinse mouth.
P331	Do not induce vomiting.
P332/313	If skin irritation occurs: Get medical advice/attention.
P333/313	If skin irritation or rash occurs: Get medical advice/attention.
P337/313	If eye irritation persists: Get medical advice/attention.
P361	Remove/Take off immediately all contaminated clothing.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P370/378	In case of fire: Use carbon dioxide, dry chemical, foam for extinction.
P391	Collect spillage.
P403/235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to approved disposal site, in accordance with local regulations.
Repr. 2	Toxic to Reproduction Category 2
Skin Irrit. 2	Skin Corrosion / Irritation Category 2
Skin Irrit. 3	Skin Corrosion / Irritation Category 3
Skin Sens. 1	Sensitization - Skin Category 1
Skin Sens. 1A	Sensitization - Skin Category 1A
Skin Sens. 1B	Sensitization - Skin Category 1B
STEL	Short Term Exposure Limits
TWA	Time Weighted Average

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.