Created: 10 November 2025

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) (as amended by Regulation (EU) 2020/878), and UK REACH

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name: Alfie Shine

Product Description: Hard wax polish containing beeswax

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture: Wood polish

Use advised against: No information available

1.3 Details of the supplier of the safety data sheet

Name of Supplier: Workshop Heaven

Address of Supplier: Unit 5, Alkerton Oaks Business Park
Stratford Rd
Upton
Banbury
OX15 6EP
UK

Telephone: +44 (0) 1295 678941

Email: sales@workshopheaven.com

1.4 Emergency telephone number

Emergency Telephone: +44 (0) 7816 771791

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Aquatic Chronic 2, H411; EUH208

Additional information: For full text of Hazard- and EU Hazard-statements: see section 16

2.2 Label elements

Signal Word: None

Hazard statements

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

P273 - Avoid release to the environment.
P391 - Collect spillage.
P501 - Dispose of contents/container to an approved hazardous/special waste disposal facility in accordance with local and national regulations

Supplemental Hazard information (EU)

EUH208 - Contains Pinenes, Limonene, and Cinnamaldehyde. May produce an allergic reaction.

SECTION 2: Hazards identification (....)

2.3 Other hazards

Does not contain any substances considered to be PBT or vPvB at levels of 0.1% or higher

Does not contain any substances with endocrine disrupting properties at levels of 0.1% or higher

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Contains the following hazardous ingredients or ingredients with a workplace exposure limit:

Chemical Name	Conc.	CAS No.	EC No.	Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]	SCL/ M-Factor/ ATE	REACH Registration Number	WEL/ OEL
Pinenes	0.1 - < 1%	80-56-8, 127-91-3	201-291-9, 204-872-5	Flam. Liq. 3, H226 Acute Tox. 4, H302 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	-	-	No
p-Cymene	0.1 - < 1%	99-87-6	202-796-7	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 3, H331 Aquatic Chronic 2, H411	ATE (inhalation) = 3 mg/L (Vapours)	-	No
alpha-Cedrene	0.1 - < 1%	469-61-4	207-418-4	Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M = 10	-	No
Limonene	0.1 - < 1%	5989-27-5, 138-86-3	227-813-5, 205-341-0	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M = 1	-	No
beta-Cedrene	< 0.1%	546-28-1	208-898-8	Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M = 10	-	No
n-Hexane	< 0.01%	110-54-3	203-777-6	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2, H361f STOT RE 1, H372 Aquatic Chronic 2, H411	-	-	Yes
Cinnamaldehyde	< 0.01%	104-55-2	203-213-9	Acute Tox. 4, H312 Skin Irrit. 2, H315 Skin Sens. 1A, H317 Eye Irrit. 2, H319	Skin Sens. 1, H317: C ≥ 0.01%	-	No

SECTION 4: First aid measures

4.1 Description of first aid measures

SECTION 4: First aid measures (....)

Contact with eyes

If substance has got into eyes, immediately wash out with plenty of water for several minutes
Irrigate eyes thoroughly whilst lifting eyelids
Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Contact with skin

If skin irritation or rash occurs, wash the affected parts of the body with soap and water
Get medical advice/attention.

Ingestion

Rinse mouth.
Give small amounts of water to drink
Never give anything by mouth to an unconscious person
Do NOT induce vomiting.
Get medical advice/attention.

Inhalation

Remove person to fresh air and keep comfortable for breathing.
Keep warm and at rest, in a half upright position. Loosen clothing
If exposed or concerned: Get medical advice/attention

4.2 Most important symptoms and effects, both acute and delayed

Contact with eyes

May cause mild eye irritation

Contact with skin

May cause allergic reaction in susceptible people
May cause mild skin irritation
If in a fire or if heated the product may melt and cause thermal burns

Ingestion

May cause nausea, vomiting and diarrhea

Inhalation

In high concentration, vapours may cause headache, nausea, dizziness.
In cases of severe exposure, irritation of the respiratory tract may develop

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Alcohol resistant foam; dry powder; carbon dioxide; sand/earth
Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Not flammable but will support combustion

If in a fire or if heated the product may melt and cause thermal burns

Gives off irritating or toxic fumes (or gases) in a fire.

SECTION 5: Firefighting measures (....)

Decomposition products may include nitrogen and carbon oxides

5.3 Advice for firefighters

Fight fire with normal precautions from a reasonable distance.

Collect contaminated fire extinguishing water separately. This MUST not be discharged into drains. Prevent fire extinguishing water from contaminating surface or ground water.

Special protective equipment: Wear self-contained breathing apparatus (SCBA). Wear full protective clothing including chemical protection suit.

Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training

Only trained and authorised personnel should carry out emergency response

Personal precautions for non-emergency personnel: Shut off all ignition sources; Wear protective clothing as per section 8; Wash thoroughly after handling.

Personal precautions for emergency responders: Shut off all ignition sources; Wear protective clothing as per section 8; Wash thoroughly after dealing with spillage

6.2 Environmental precautions

Do not allow to enter public sewers and watercourses

If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

6.3 Methods and material for containment and cleaning up

Shut off all ignition sources

Do not allow to enter public sewers and watercourses

Absorb spillage in suitable inert material

Sweep or shovel-up spillage and remove to a safe place

Place in appropriate container

Remove contaminated material to safe location for subsequent disposal

Ventilate the area and wash spill site after material pick-up is complete

Seek expert advice for removal and disposal of all contaminated materials and wastes

6.4 Reference to other sections

See section(s): 7,8 &13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure adequate ventilation

If in a fire or if heated the product may melt and cause thermal burns

Do not eat, drink or smoke when using this product.

Wear protective gloves as per section 8

SECTION 7: Handling and storage (....)

Wash thoroughly after handling.

Contaminated clothing should be laundered before reuse

7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated place

Keep away from food, drink and animal feedingstuffs

Keep only in the original container

Keep away from heat and direct sunlight.

Incompatible with strong oxidizing agents, strong acids, strong bases (alkalis)

7.3 Specific end use(s)

Hard wax wood polish

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace exposure - Measurement of exposure by inhalation to chemical agents - Strategy for testing compliance with occupational exposure limit values). European Standard EN 14042 (Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents). European Standard EN 482 (Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents).
Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Pinenes

DNEL (inhalational) 3.8 mg/m³ Industry, Long Term, Systemic Effects
DNEL (dermal) 840 µg/kg bw/day Industry, Long Term, Systemic Effects
DNEL (inhalational) 674 µg/m³ Consumer, Long Term, Systemic Effects
DNEL (dermal) 300 µg/kg bw/day Consumer, Long Term, Systemic Effects
DNEL (oral) 300 µg/kg bw/day Consumer, Long Term, Systemic Effects
PNEC aqua (freshwater) 0.606 µg/L
PNEC aqua (intermittent releases, freshwater) 3.03 µg/L
PNEC aqua (marine water) 0.061 µg/L
PNEC aqua (intermittent releases, marine water) 0.303 µg/L
PNEC (STP) 0.2 mg/L
PNEC sediment (freshwater) 157 µg/kg
PNEC sediment (marine water) 15.7 µg/kg
PNEC terrestrial (soil) 31.7 µg/kg
PNEC secondary poisoning (food) 8.76 mg/kg

p-Cymene

DNEL (inhalational) 880 µg/m³ Industry, Long Term, Systemic Effects
DNEL (dermal) 250 µg/kg bw/day Industry, Long Term, Systemic Effects
DNEL (inhalational) 220 µg/kg³ Consumer, Long Term, Systemic Effects
DNEL (dermal) 125 µg/kg bw/day Consumer, Long Term, Systemic Effects
DNEL (oral) 125 µg/kg bw/day Consumer, Long Term, Systemic Effects
PNEC aqua (freshwater) 3.7 µg/L
PNEC aqua (intermittent releases, freshwater) 37 µg/L
PNEC aqua (marine water) 370 ng/L
PNEC aqua (intermittent releases, marine water) 3.7 µg/L
PNEC (STP) 10 mg/L
PNEC sediment (freshwater) 1.52 mg/kg

SECTION 8: Exposure controls/personal protection (....)

PNEC sediment (marine water) 152 µg/kg
PNEC terrestrial (soil) 302 µg/kg

alpha-Cedrene

No exposure limits have been set for this substance

Limonene

DNEL (inhalational) 66.7 mg/m³ Industry, Long Term, Systemic Effects
DNEL (dermal) 9.5 mg/kg bw/day Industry, Long Term, Systemic Effects
DNEL (inhalational) 16.6 mg/m³ Consumer, Long Term, Systemic Effects
DNEL (dermal) 4.8 mg/kg bw/day Consumer, Long Term, Systemic Effects
DNEL (oral) 4.8 mg/kg bw/day Consumer, Long Term, Systemic Effects
PNEC aqua (freshwater) 14 µg/L
PNEC aqua (marine water) 1.4 µg/L
PNEC (STP) 1.8 mg/L
PNEC sediment (freshwater) 3.85 mg/kg
PNEC sediment (marine water) 385 µg/kg
PNEC terrestrial (soil) 763 µg/kg
PNEC secondary poisoning (food) 133 mg/kg

beta-Cedrene

No exposure limits have been set for this substance

n-Hexane

(EU) IOELV (long term TWA) 20 ppm, 72 mg/m³
WEL (long term) 20 ppm, 72 mg/m³ (UK EH40)
DNEL (inhalational) 75 mg/m³ Industry, Long Term, Systemic Effects
DNEL (dermal) 11 mg/kg bw/day Industry, Long Term, Systemic Effects
DNEL (inhalational) 16 mg/m³ Consumer, Long Term, Systemic Effects
DNEL (dermal) 5.3 mg/kg bw/day Consumer, Long Term, Systemic Effects
DNEL (oral) 4 mg/kg bw/day Consumer, Long Term, Systemic Effects

Cinnamaldehyde

DNEL (inhalational) 6.11 mg/m³ Industry, Long Term, Systemic Effects
DNEL (dermal) 1.75 mg/kg bw/day Industry, Long Term, Systemic Effects
DNEL (inhalational) 1.09 mg/m³ Consumer, Long Term, Systemic Effects
DNEL (dermal) 625 µg/kg bw/day Consumer, Long Term, Systemic Effects
DNEL (oral) 625 µg/kg bw/day Consumer, Long Term, Systemic Effects
PNEC aqua (freshwater) 8 µg/L
PNEC aqua (intermittent releases, freshwater) 32.1 µg/L
PNEC aqua (marine water) 0.8 µg/L
PNEC aqua (intermittent releases, marine water) 3.21 µg/L
PNEC (STP) 7.1 mg/L
PNEC sediment (freshwater) 101 µg/kg
PNEC sediment (marine water) 10.1 µg/kg
PNEC terrestrial (soil) 15.6 µg/kg

8.2 Exposure controls

Selection and use of personal protective equipment should be based on a risk assessment of exposure potential

Engineering controls

Ensure adequate ventilation

Respiratory protection

No respiratory protection is needed during normal handling

Eye/face protection

None required for normal handling of product
If there is a risk of product getting into eyes, wear safety glasses approved to standard EN 166.

SECTION 8: Exposure controls/personal protection (....)

Skin protection

Wear protective gloves. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and standard EN 374.

The selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used and the supplier should be consulted.

Nitrile rubber are recommended

Glove material: Nitrile rubber (NBR)
Thickness: 0.11 mm
Breakthrough time: > 480 min
Reference: Literature

Thermal hazards

Wear heat insulating gloves when handling hot material to prevent thermal burns

Hygiene measures

Use good personal hygiene practices
Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.
Contaminated clothing should be laundered before reuse

Environmental exposure controls

Do not empty into drains

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Solid (wax)
Colour:	Gold/yellow
Odour:	Frankincense and beeswax
Melting point/freezing point:	Melting point 60 °C
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	Not flammable
Lower and upper explosion limit:	Not applicable
Flash point:	> 150 °C
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH:	No data available
Kinematic viscosity:	No data available
Solubility:	Insoluble in water
Partition coefficient n-octanol/water (log value):	No data available
Vapour pressure:	No data available
Density and/or relative density:	No data available
Relative vapour density:	No data available
Particle characteristics:	No data available

9.2 Other information

Volatile Organic Compounds (VOC): No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

SECTION 10: Stability and reactivity (....)

Not reactive under normal storage and handling conditions

May react with strong oxidising agents, especially at high temperatures

10.2 Chemical stability

Stable under recommended storage and handling conditions

10.3 Possibility of hazardous reactions

Hazardous reactions are not anticipated under recommended storage and handling conditions

10.4 Conditions to avoid

Keep away from heat and direct sunlight.

The product is combustible when heated > 300 °C

10.5 Incompatible materials

Incompatible with strong oxidizing agents, strong acids, strong bases (alkalis)

10.6 Hazardous decomposition products

Decomposition products may include nitrogen and carbon oxides

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute Toxicity

Based on available data, the classification criteria are not met

Substances

Chemical Name	LD_{50} (oral, rat)	LC_{50} (inhalation, rat)	LD_{50} (dermal, rabbit)
Pinenes	500 mg/kg	No data available	2 000 mg/kg (rat)
p-Cymene	4 750 mg/kg	3 mg/L (Vapours)	5 000 mg/kg
alpha-Cedrene	No data available	No data available	No data available
Limonene	2 000 mg/kg	No data available	5 000 mg/kg
beta-Cedrene	No data available	No data available	No data available
n-Hexane	16 000 mg/kg (24 mL/kg)	(24 h) 17 600 mg/m³ (5 000 ppm)	> 3 350 mg/kg
Cinnamaldehyde	2 500 mg/kg	No data available	1 100 mg/kg

Skin corrosion/irritation

Based on available data, the classification criteria are not met

Substances

Chemical Name	Irritation/corrosion
Pinenes	Adverse effect observed (irritating)
p-Cymene	No adverse effect observed (not irritating)
alpha-Cedrene	No data available
Limonene	Adverse effect observed (irritating)
beta-Cedrene	No data available
n-Hexane	Adverse effect observed (irritating)
Cinnamaldehyde	Adverse effect observed (irritating)

Serious eye damage/irritation

Based on available data, the classification criteria are not met

SECTION 11: Toxicological information (....)

Substances

Chemical Name	Irritation/corrosion
Pinenes	No adverse effect observed (not irritating)
p-Cymene	No adverse effect observed (not irritating)
alpha-Cedrene	No data available
Limonene	No adverse effect observed (not irritating)
beta-Cedrene	No data available
n-Hexane	No adverse effect observed (not irritating)
Cinnamaldehyde	Adverse effect observed (irritating)

Respiratory or skin sensitisation

This mixture is not classified as sensitising but contains at least one substance classified as sensitising and present in a concentration that may trigger an allergic reaction

Substances

Chemical Name	Skin sensitisation	Respiratory sensitisation
Pinenes	Adverse effect observed (sensitising)	No data available
p-Cymene	No adverse effect observed (not sensitising)	No data available
alpha-Cedrene	No data available	No data available
Limonene	Adverse effect observed (sensitising)	No data available
beta-Cedrene	No data available	No data available
n-Hexane	No adverse effect observed (not sensitising)	No data available
Cinnamaldehyde	Adverse effect observed (sensitising)	No data available

Germ cell mutagenicity

Based on available data, the classification criteria are not met

Substances

Chemical Name	Toxicity - In Vitro	Toxicity - In Vivo
Pinenes	No adverse effect observed (negative)	No adverse effect observed (negative)
p-Cymene	No adverse effect observed (negative)	No data available
alpha-Cedrene	No data available	No data available
Limonene	No adverse effect observed (negative)	No adverse effect observed (negative)
beta-Cedrene	No data available	No data available
n-Hexane	No adverse effect observed (negative)	No adverse effect observed (negative)
Cinnamaldehyde	No adverse effect observed (negative)	No adverse effect observed (negative)

Carcinogenicity

Based on available data, the classification criteria are not met
d-Limonene is classified by IARC as Group 3 (Not classifiable as to its carcinogenicity to humans)

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Pinenes	No data available	No data available	No data available
p-Cymene	No data available	No data available	No data available
alpha-Cedrene	No data available	No data available	No data available
Limonene	LOAEL 75 mg/kg bw/day	No data available	No data available
beta-Cedrene	No data available	No data available	No data available
n-Hexane	No data available	10 560 mg/m³ (mouse)	No data available
Cinnamaldehyde	235 mg/kg bw/day	No data available	No data available

Reproductive toxicity

Based on available data, the classification criteria are not met

SECTION 11: Toxicological information (....)

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Pinenes	518 mg/kg bw/day (Effect on fertility) 60 mg/kg bw/day (Effect on developmental toxicity)	No data available	No data available
p-Cymene	50 mg/kg bw/day (Effect on fertility) 50 mg/kg bw/day (Effect on developmental toxicity)	No data available	No data available
alpha-Cedrene	No data available	No data available	No data available
Limonene	2 000 mg/kg bw/day (Effect on fertility) 591 mg/kg bw/day (Effect on developmental toxicity)	No data available	No data available
beta-Cedrene	No data available	No data available	No data available
n-Hexane	2 830 mg/kg bw/day (Effect on developmental toxicity)	LOAEC 17 600 mg/m³ (Effect on fertility) LOAEC 704 mg/m³ (mouse) (Effect on developmental toxicity)	No data available
Cinnamaldehyde	350 mg/kg bw/day (Effect on fertility) 250 mg/kg bw/day (Effect on developmental toxicity)	No data available	No data available

Specific target organ toxicity (STOT) - single exposure

Based on available data, the classification criteria are not met

Substances

Chemical Name	Route	Remarks
Pinenes	Respiratory	No data available
p-Cymene	Respiratory	No data available
alpha-Cedrene	Respiratory	No data available
Limonene	Respiratory	No data available
beta-Cedrene	Respiratory	No data available
n-Hexane	Respiratory	No adverse effect observed (not irritating)
Cinnamaldehyde	Respiratory	No data available

Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Pinenes	LOAEC 566.5 mg/m³ (mouse)	No data available	No data available
p-Cymene	50 mg/kg bw/day	No data available	No data available
alpha-Cedrene	No data available	No data available	No data available
Limonene	600 - 1 650 mg/kg bw/day	No data available	No data available
beta-Cedrene	No data available	No data available	No data available
n-Hexane	40 mg/kg bw/day	LOAEC 1 760 mg/m³ (mouse)	No data available
Cinnamaldehyde	656 mg/kg bw/day (mouse)	No data available	No data available

Aspiration hazard

Based on available data, the classification criteria are not met

Contact with eyes

May cause mild eye irritation

Contact with skin

SECTION 11: Toxicological information (....)

May cause allergic reaction in susceptible people
May cause mild skin irritation
If in a fire or if heated the product may melt and cause thermal burns

Ingestion

May cause nausea, vomiting and diarrhea

Inhalation

In high concentration, vapours may cause headache, nausea, dizziness.
In cases of severe exposure, irritation of the respiratory tract may develop

11.2 Information on other hazards

Does not contain any substances with endocrine disrupting properties at levels of 0.1% or higher

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.
Classification based on calculation and concentration thresholds
alpha-Cedrene and beta-Cedrene, M-Factor = 10

Substances

Chemical Name	LC_{50} (fish)	EC_{50} (aquatic invertebrates)	EC_{50} (aquatic algae)
Pinenes	(4 days) 270 µg/L	(48 h) 475 µg/L	(48 h) 131 µg/L
p-Cymene	(4 days) 48 mg/L	(48 h) 3.7 mg/L	(72 h) 4.03 mg/L
alpha-Cedrene	No data available	No data available	No data available
Limonene	(4 days) 720 µg/L	(48 h) 307 µg/L	(72 h) 320 µg/L
beta-Cedrene	No data available	No data available	No data available
n-Hexane	LL_{50} (4 days) 12 mg/L	EL_{50} (48 h) 3 mg/L	EL_{50} (72 h) 9.285 mg/L
Cinnamaldehyde	(4 days) 3.9 mg/L	(48 h) 3.21 mg/L	(72 h) 31.6 mg/L

12.2 Persistence and degradability

No data available

Substances

Chemical Name	Biodegradation
Pinenes	Readily biodegradable in water
p-Cymene	Readily biodegradable in water
alpha-Cedrene	No data available
Limonene	Readily biodegradable in water
beta-Cedrene	No data available
n-Hexane	Readily biodegradable in water
Cinnamaldehyde	Readily biodegradable in water

12.3 Bioaccumulative potential

Not determined

Substances

Chemical Name	Bioconcentration Factor (BCF)	Log Kow
Pinenes	855.7 L/kg ww	(Log Pow) 4.46 @ 20 °C
p-Cymene	No data available	(Log Pow) 4.8 @ 20 °C
alpha-Cedrene	No data available	No data available
Limonene	690.1 L/kg ww	(Log Pow) 4.38 @ 25 °C

SECTION 12: Ecological information (....)

beta-Cedrene	No data available	No data available
n-Hexane	No data available	(Log Pow) 3.42 - 5.8 @ 20 °C and pH 7
Cinnamaldehyde	8 (dimensionless)	(Log Pow) ca. 2.1 @ 25 °C

12.4 Mobility in soil

Insoluble in water

Adsorption to solid soil phase is not expected

Substances

Chemical Name	Adsorption/desorption
Pinenes	Koc 2 547 at 20°C
p-Cymene	Koc 4 074 at 20°C
alpha-Cedrene	No data available
Limonene	Koc 2 413 at 20 °C
beta-Cedrene	No data available
n-Hexane	Koc 2 187.76 at 20°C
Cinnamaldehyde	Koc 90.78 at 20°C

12.5 Results of PBT and vPvB assessment

Does not contain any substances considered to be PBT or vPvB at levels of 0.1% or higher

12.6 Endocrine disrupting properties

Does not contain any substances with endocrine disrupting properties at levels of 0.1% or higher

12.7 Other adverse effects

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Avoid release to the environment.

Disposal should be in accordance with local, state or national legislation

Containers may be reused/recycled

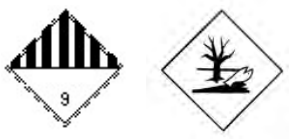
13.2 Classification

The waste must be identified according to the List of Wastes (2000/532/EC)

Hazardous Property Code(s): HP 14 Ecotoxic

SECTION 14: Transport information

UN 3077 and UN 3082, when carried in single or combination packagings containing a net quantity per single or inner packaging of 5L/kg or less, are not subject to the provisions of ADR, RID, IMDG or IATA, provided the package meets the general packing quality provisions.



14.1 UN number or ID number

UN No.: 3077

SECTION 14: Transport information (....)

14.2 UN proper shipping name

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (alpha-Cedrene, Pinenes)

14.3 Transport hazard class(es)

Hazard Class: 9

14.4 Packing group

Packing Group: III

14.5 Environmental hazards

MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

14.6 Special precautions for user

No information available

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

14.8 Road/Rail (ADR/RID)

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (alpha-Cedrene, Pinenes)
ADR UN No.:	3077
ADR Hazard Class:	9
ADR Packing Group:	III
Tunnel Restriction Code:	(-)

14.9 Sea (IMDG)

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (alpha-Cedrene, Pinenes)
IMDG UN No.:	3077
IMDG Hazard Class:	9
IMDG Packing Group:	III

14.10 Air (ICAO/IATA)

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (alpha-Cedrene, Pinenes)
ICAO UN No.:	3077
ICAO Hazard Class:	9
ICAO Packing Group:	III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety data sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 (as amended by Regulation (EU) 2020/878) and UK REACH

The GB Classification, Labelling and Packaging Regulation (GB CLP) applies in Great Britain

Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe

Restrictions on use according to Annex XVII to REACH Regulation: None

This product is covered by EU Directive 2012/18/EU (the Seveso III Directive): Class E2 (Hazardous to the Aquatic Environment in Category Chronic 2), LT 200 te, UT 500 te

SECTION 15: Regulatory information (....)

UN 3077 and UN 3082, when carried in single or combination packagings containing a net quantity per single or inner packaging of 5L/kg or less, are not subject to the provisions of ADR, RID, IMDG or IATA, provided the package meets the general packing quality provisions.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

The above information is believed to be correct but does not purport to be all inclusive and shall only be used as a guide. The company will not be held liable for any damage resulting from handling or from contact with this product.

Sources of data: Information from company data, published literature and supplier safety data sheets

Training advice

Workers must be informed of the presence of hazardous ingredients and trained in the proper use and handling of this product as required under applicable regulations

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Aquatic Chronic 2, H411: Classification based on calculation and concentration thresholds

This mixture is not classified as sensitising but contains at least one substance classified as sensitising and present in a concentration that may trigger an allergic reaction

Text not given with phrase codes where they are used elsewhere in this safety data sheet:

EUH208: Contains (name of sensitising substance). May produce an allergic reaction

H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour

H302: Harmful if swallowed

H304: May be fatal if swallowed and enters airways

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H331: Toxic if inhaled

H336: May cause drowsiness or dizziness

H361f: Suspected of damaging fertility

H372: Causes damage to organs through prolonged or repeated exposure

H400: Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects

H411: Toxic to aquatic life with long lasting effects

Acronyms

ATE: Acute Toxicity Estimate

BOELV: Binding Occupational Exposure Limit Value

CAS: Chemical Abstracts Service

SECTION 16: Other information (....)

DNEL: Derived No-Effect Level

EC: European Community

EC_{50}: Effective Concentration, 50%

GHS: Globally Harmonised System

IOELV: Indicative Occupational Exposure Limit Value

LC_{50}: Lethal Concentration, 50%

LD_{50}: Lethal Dose, 50%

NOAEC: No Observed Adverse Effect Concentration

NOAEL: No Observed Adverse Effect Level

OEL: Occupational Exposure Limit

PBT: Persistent, Bioaccumulative and Toxic

PNEC: Predicted No-Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

SCL: Specific Concentration Limit

STOT RE: Specific Target Organ Toxicity Repeated Exposure

STOT SE: Specific Target Organ Toxicity Single Exposure

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

WEL: Workplace Exposure Limit