



MATERIAL SAFETY DATA SHEET

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PRODUCT: OCTYL SALICYLATE

PRODUCT NAME: Octyl Salicylate
OTHER NAMES: 2-Ethyhexyl salycilate

UN NUMBER : None assigned
 DANGEROUS GOODS :
 CLASS & SUB RISK : Not applicable
 HAZCHEM CODE : None assigned
 PACKAGING GROUP : None assigned
 POISONS SCHEDULE : Not scheduled
 USES : As a UV-B sunscreen, can be used alone for low to moderate SPF products, or in combination with other sunscreen agents for higher SPF products.

STATEMENT OF HAZARDOUS NATURE:

Classified as not hazardous according to the criteria of Worksafe Australia.

PHYSICAL DESCRIPTION/PROPERTIES:

APPEARANCE/ODOUR : Transparent colourless liquid. Odourless to aromatic.
 BOILING POINT : Over 200°C
 MELTING POINT (°C) : 62-64°C
 FLASHPOINT (°C) : Over 100°C
 REFRACTIVE INDEX n_D^{20} : 1.494 – 1.505
 PURITY BY GC : 99.0% min.
 ACID VALUE(mgr KOH per gr.) : 1 max.
 SPECIFIC GRAVITY $D^{25/25}$: 1.013 – 1.022
 VAPOUR PRESSURE (mmHg) : Less than 1 mbar at 25°C

INGREDIENTS:

CHEMICAL ENTITY	CAS No.	PROPORTION
2-Ethyhexyl salycilate	118-60-5	100%

1. HEALTH HAZARD INFORMATION**Acute Health Hazards:**

Swallowed: Swallowing may have the following effects: gastrointestinal irritation. A large dose may have the following effects: central nervous system depression.

Eyes: Liquid or mist may cause slight transient irritation.

Skin: Material may cause slight skin irritation on prolonged or repeated contact.

Inhaled: High concentration (mist) may irritate the respiratory tract.

Other Hazards:

Possible risk of impaired fertility. Possible risk of harm to the unborn child.

2. FIRST AID

Swallowed: Rinse mouth with water. Give water to drink. If a large quantity has been ingested, obtain medical attention.

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Eyes: Immediately flush liberally with water.
Skin
contact: Remove contaminated clothing. Wash with soap and water.
Inhaled: If inhaled move victim to fresh air.
First aid
facilities: Provide eye bath and safety shower in the immediate vicinity of any potential exposure.
Advice to
doctor: Treat symptomatically - see health hazards listed above.

3. PRECAUTIONS FOR USE**Exposure standards :**

Engineering controls: Mechanically ventilate enclosed areas to control airborne levels below recommended exposure levels.

Personal protection: Eyes: Safety glasses; Hands/skin: Gloves.

Flammability:

FLASHPOINT (°C) : Over 100°C

4. SAFE HANDLING INFORMATION**Storage & Transport:**

Store in full, tightly closed glass, aluminium or suitably lined containers, protected from heat and light.

Stability & Reactivity:

Stability is excellent when stored in above conditions. Quality should be rechecked after one year of storage.

Spills & disposal:

Disposal should be carried out in accordance with national and local regulations e.g. in an approved incinerator. If correctly incinerated this material will decompose to carbon dioxide and water. All spillage should be cleared up quickly. Do not allow the material to enter surface water drains. If this should occur inform the local authorities immediately. Collect the material in a closed container or salvage tank and remove to a safe place for disposal by burning. Flush contaminated area with plenty of water. Contact local authorities for regulations on disposal.

Fire/Explosion Hazards:**Flammability:**

FLASHPOINT (°C) : 210°C (Pensky Martens Open Cup)

Fire Fighting Recommendations:

Extinguishing media : Carbon dioxide, dry chemical or water spray
Protective equipment : Wear self-contained breathing apparatus in a large fire
Special precautions : Prevent contaminated extinguishing water entering drains, sewers or rivers.

5. OTHER INFORMATION**Toxicity and Carcinogenicity:**

Acute Toxicity : LD50 (oral rat): >30,000mg/kg
LD50 (dermal, rabbit): >20,000mg/kg

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Irritation : Primary skin irritation, rabbit: Not irritating
 Primary eye irritation, rabbit: Not irritating

Sensitisation : Not a skin sensitiser

Other Toxicological Effects:**Toxicity to reproduction:**

Effects on reproduction (fertility effects and developmental toxicity) have been found in animal studies (rats and mice) when the material has been administered orally in high doses.

Subacute-chronic toxicity:

Rat and mouse: Liver and kidney effects, reversible testicular damage. When administered in the feed at high doses the material causes liver tumours. The effects on the liver are regarded as specific to rodents and there is no evidence to suggest that the material is a potential human carcinogen (WHO:1992).

Genotoxicity:

The material was not mutagenic when tested in bacterial or mammalian systems and did not covalently bind to DNA.

Ecological Information:Acute toxicity, fish:

LC50, 96h,	Fathead minnow	>0.24-0.67mg/l	(NOEC)
	Rainbow trout	>0.32mg/l	(NOEC)
	Bluegill	>0.32mg/l	(NOEC)

No effect indicated below or near the water solubility of the product.

Acute toxicity, daphnia

LC50, 48h,	Daphnia magna	>0.32mg/l	(NOEC)
	Daphnia magna	>1mg/l*	(NOEC)
	(*dispersant added to increase solubility)		
	Daphnia pulex	>0.133mg/l	(result not considered reliable)

Acute toxicity, algae

EC50, 96h,	Seleastrum capricornatum:	>0.1mg/l	(NOEC)
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No effect indicated below or near the water solubility of the product.

Degradation

80% degradation (based on CO₂) after 28 days (Sturm test). The product is readily biodegradable.

Bioaccumulation

Bioaccumulation factor (BCF)

Bluegill sunfish, 3-5 days	log BCF=2.05	
Fathead minnow, 56days	log BCF=1.96-3.76	T _{1/2} =6-18 days
Golden orfe, 3 days	lob BCF=1.60	

Potential bioaccumulative, no indication of biomagnification.

6. REGULATORY INFORMATION:

Classification and labelling

Classification: Toxic to reproduction, category 3

Labelling: Symbol: Xn - harmful

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Risk phrases: R62 - Possible risk of impaired fertility
R63 - Possible risk of harm to unborn child
Safety phrases: S36/37 - Wear suitable protective clothing & gloves.

Preparations (e.g. plastisols) contained 6% or more of DOP will be classified and labelled in the same way.

7. INTERNATIONAL INVENTORY STATUS:

EINECS: Listed EINECS nr 204-211-0
TSCA: Listed CAS nr 177-81-7
DSL: Listed CAS nr 177-81-7
MITI: Listed No C61-1472-1307
AICS: Listed CAS nr 177-81-7

CONTACT POINT: EMERGENCY No. 0419 341 095 all hours

DISCLAIMER: The information given in this data sheet is based on data supplied by the manufacturer and is, to the best of our knowledge, true and accurate, but any recommendations or suggestions that may be made are without guarantee, since the conditions of use are beyond our control. The information and recommendations offered are for the user's consideration and it is the user's responsibility to satisfy themselves that they are suitable and complete for this particular purpose. We recommend that the safety and handling information presented in this data sheet be passed on, in an appropriate format, to your customers and handlers.