







- Warn occupants and shipping in downwind areas of possible fire and explosion hazard, where present.
- Notify the port or relevant authority and keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Confine the spill if possible.
- Remove the product from the surface by skimming or with suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See "First Aid Measures" and "Stability and Reactivity".

## **7. HANDLING AND STORAGE**

### **Precautions for Safe Handling**

This product is combustible. Do not open near open flame, sources of heat or ignition. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Use grounding leads to avoid discharge (electric

### **Conditions for Safe Storage**

Store in a cool, dry place away from direct sunlight. Do not pressurise, cut, heat or weld containers - residual vapours are flammable. This product is flammable and will fuel a fire in progress.

### **Incompatible Materials**

Natural Rubber, Butyl Rubber, EPDM, Polystyrene

## **8. EXPOSURE CONTROLS: PERSONAL PROTECTION**

### **National Exposure Standards**

The time weighted average concentration (TWA) for this product is: None specified: consider 5 g/m<sup>3</sup>, which means the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short term exposure limit (STEL) is: None specified: consider 5 g/m<sup>3</sup>, which is the maximum allowable exposure concentration at any time. Replacing a TWA or STEL value for some products is a Peak Limitation value (Peak): None applies in this case. In addition to the exposure concentrations may be a subsidiary caution in such cases where the product is a skin sensitiser, represented as (Sk), where none applies in this case.

### **Biological Limit Values (BLV)**

No data available

### **Engineering Controls: Ventilation**

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion proof equipment.

### **Personal Protective Equipment**

**Respiratory Protection:** Where concentrations in air may approach or exceed the limits described in the National Exposure Standards, it is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type 'A' filter material is considered suitable for this product.

**Eye Protection:** Always use safety glasses or a face shield when handling this product.

**Skin/Body Protection:** Always wear long sleeves, long trousers, or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves be worn when handling this product.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Property	Unit of measurement	Typical Value
Appearance	None	Clear, yellow liquid
Boiling Point/Range	°C	224

Property	Unit of measurement	Typical Value
Flash Point	°C	105
SG/Density (@ 15°C)	g/ml; kgm <sup>-3</sup>	0.95
Vapour Pressure @ 20°C	kPa	No data available
Vapour Density @ 20°C	g/ml; kgm <sup>-3</sup>	No data available
Autoignition Temperature	°C	> 400
Explosive Limits in Air	% vol/vol	0.9 - 5.9
Viscosity @ 20°C	cPs, mPas	No data available
Percent volatiles	% vol/vol	100
Acidity/alkalinity as pH	None	Not applicable
Solubility in Water	g/l	Partly soluble
Other solvents	-	Organic solvents

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Technical Data Sheet.

## 10. STABILITY AND REACTIVITY

### Chemical stability

This product is stable at room temperature and pressure.

### Conditions to avoid

Heating, alkaline environments

### Hazardous decomposition products

Nitrogen compounds, sulfur dioxide, carbon monoxide on burning and oxidation

### Hazardous reactions

Oxidising and reducing agents, strong alkalis

### Hazardous polymerisation

Will not occur

## 11. TOXICOLOGICAL INFORMATION

### Acute Effects

#### **Ingestion**

If swallowed, may cause lung damage on vomiting. Will cause central nervous system depression. May cause discomfort on swallowing. Vapours will cause drowsiness and dizziness and ingestion may result in headaches and nausea.

#### **Eye Contact**

Harmful by inhalation. Vapours will cause dizziness and drowsiness. There is the possibility of organ damage over prolonged use or exposure. Central Nervous System depression includes nausea, headaches, dizziness, and possibly loss of consciousness.

#### **Skin Contact**

Eye contact with this product will cause redness and swelling with a burning sensation and blurred vision.

#### **Inhalation**

This product is irritating to the skin with prolonged exposure. It may result in dryness and cracking.

### Chronic Effects

Components of this product are suspected skin sensitisers and immunotoxicants.

### Other Health Effects Information

Persons with pre-existing skin or respiratory conditions should avoid overexposure to this product.

**Toxicological Information**

Oral LD<sub>50</sub>: Octhilinone: Rat: 550 mg/kg  
Dermal LD<sub>50</sub>: No data available

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Aquatic Toxicity:**

Fish Toxicity LC<sub>50</sub>: This product is known to be toxic to aquatic life.  
Daphnia Magna EC<sub>50</sub>: No data available  
Blue-green algae: Expected to be toxic  
Green algae: Expected to be toxic

**Persistence/Biodegradability:**

Octhilinone: log P: 2.45; Terbutryn: log P: 4.3

**Mobility:**

This product is soluble in water and is expected to be highly mobile on dilution.

**13. DISPOSAL CONSIDERATIONS**

**Disposal Methods**

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain product residue that may be harmful. Ensure that empty packaging is managed in accordance with Dangerous Goods regulations.

**Special Precautions**

This product is not suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product is ashless and can be incinerated in a regulated facility. In the absence of a designated industrial incinerator, this product should be treated and disposed through chemical waste treatment, or considered for use in solvent recycling.

**14. TRANSPORT INFORMATION**

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	3082	UN No.	3082	UN No.	3082
Proper Shipping Name	Environmentally hazardous substance, Liquid, N.O.S.	Proper Shipping Name	Environmentally hazardous substance, Liquid, N.O.S.	Proper Shipping Name	Environmentally hazardous substance, Liquid, N.O.S.
DG Class	9	DG Class	9	DG Class	9
Sub. Risk	None	Sub. Risk	None	Sub. Risk	None
Packing Group	III	Packing Group	III	Packing Group	III
Hazchem	2X	Hazchem	2X	Hazchem	2X

**Dangerous Goods Segregation**

This product is classified as Dangerous Goods Class 9 for Transport by Road, Rail, and Sea.

**15. REGULATORY INFORMATION**

**Country/Region:** Australia

**Inventory:** AICS

**Status:** Listed

Poisons Schedule: 5

## **16. OTHER INFORMATION**

**Reasons for Issue:** Upgraded MSDS. New information in all sections.

**Abbreviations:**

AICS: Australian Inventory of Chemical Substances

CAS Number: Chemical Abstracts Number

IARC: International Agency for Research on Cancer

ASCC: Australian Safety and Compensation Council

**References:**

- Supplier Material Safety Data Sheets
- *Sax's Dangerous Properties of Industrial Materials*, Richard J Lewis Snr., pub. Canada (2000)

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The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Shieldcoat Pty Ltd.

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