

Version 1.4

Orica Woodcare

ABN 99 004 117 828

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MATERIAL SAFETY DATA SHEET**Toby Unithane Catalyst****Statement of Hazardous Nature**

This substance is hazardous according to the criteria of WorkSafe Australia
All ingredients are listed on the AICS

IDENTIFICATION

Use: Catalyst for polyurethane coating	UN Number: 1992.
	Class: 3
Correct Shipping Name: Flammable Liquid, Toxic, N.O.S. (contains organic tin)	Subsidiary Risk: 6.1
	Hazchem: 3[Y]
	Packing Group: III
Appropriate EPG 3A2	SUSDP Schedule: 7

DESCRIPTION/PROPERTIES:

Appearance: Pale yellow liquid	Odour: Strong amine-like odour
Percent Volatiles: n.d	Specific Gravity: 0.95
Boiling Point: 134° C (DMEA)	Melting Point: n.d.
Flash Point: 38° C.	Flammability Limits: 1.9 to 13.4 %
Vapour Pressure: 4.5 mm Hg	Solubility in water : partially miscible

Other Properties: Incompatible with strong oxidisers.**INGREDIENTS:**

	Proportion	CAS No
Dimethylethanolamine	30 - 60 %	108-01-0
Dibutyltin Dilaurate	30 - 60 %	77-58-7
Ingredients determined to be non-hazardous	to 100 %	n.a.

Abbreviations: n.a = not applicable, n.d = not determined, n.all. = not allocated

Prepared by SSC Pty Ltd Brisbane 07 3821 0176

HEALTH HAZARD INFORMATION**HEALTH EFFECTS****Acute****SWALLOWED**

TOXIC. May irritate or burn mouth and throat. May induce nausea, abdominal cramp, chest pains, weakness and possible collapse. Very severe aspiration hazard.

EYE

Liquid splashes may cause moderate to severe eye irritation, pain and corneal injury. Prompt treatment will prevent serious injury. If substance left in contact blindness may result.

SKIN

Liquid may cause severe irritation, pain, redness and swelling. Blisters and possible tissue destruction may result if left in contact.

INHALED

Very low vapour pressure indicates very little vapour given off. Inhalation of mists may cause headaches, nasal discharge and coughing. Discomfort may be experienced in eyes, nose and throat. Severe irritation of the respiratory tract may also occur. Inhalation of concentrated vapours may cause vomiting, nausea and unconsciousness. Prolonged over exposure to vapours may be fatal.

CHRONIC

Prolonged or repeated skin exposure may lead to dermatitis. Prolonged or repeated exposure to dibutyltin dilaurate may have serious adverse effects on the central nervous system.

FIRST AID

Note: If ANY adverse reaction occurs transport IMMEDIATELY to hospital or doctor.

SWALLOWED

If conscious, give milk or water. **Do not induce** vomiting without expert medical guidance. Rinse mouth out with water and give one glass to drink. If symptoms persist or if patient is suspected of swallowing more than 50 mL seek urgent medical assistance.

EYE

Immediately: Hold eyelids open and flush eye for 15 minutes with water. Ensure inside of eyelids are flushed. Gently lift upper and lower eyelid to flush. **Always have eyes examined by an ophthalmic specialist after exposure to this product.**

SKIN

Remove contaminated clothing and footwear (while under safety shower if appropriate). Flush affected area with water for 3-5 minutes followed by washing gently with soap and water for a further 5 minutes. Rinse well and pat dry. If symptoms persist or burns are present seek prompt medical assistance.

INHALED

Remove patient (while wearing SCBA if concentrations are high) to fresh air. Allow to rest. Rinse mouth and nose with water. Provide artificial respiration if breathing stops. Seek prompt medical attention unless recovery is virtually immediate.

FIRST AID FACILITIES

Provide normal industrial first aid facilities including eye-wash stations and safety showers as appropriate.

ADVICE TO DOCTOR:

Treat symptomatically. Aspiration of the product during induced emesis may cause lung injury. Inhalation exposures may aggravate existing conditions such as asthma, bronchitis and any inflammatory or fibrotic respiratory disease. Overexposure to dibutyltin dilaurate may lead to pruritus. For further advice contact:

POISONS INFORMATION CENTRE 13 11 26 in all States

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PRECAUTIONS FOR USE**EXPOSURE STANDARDS** (WorkSafe Australia Exposure Standards May 1995)

No exposure standards have been established for this product. The standard for the ingredients is:

<i>Substance</i>	<i>TWA</i>	<i>STEL</i>
Dimethylethanolamine	2 ppm	22 ppm
Dibutyltin dilaurate (ACGIH) Skin	0.01 mg/m ³	0.2 mg/m ³

ENGINEERING CONTROLS

If used indoors provide intrinsically safe ventilation/vapour extraction systems capable of maintaining the workplace air quality below the exposure standards recommended. In the home ensure that all windows are open in the room in which the product is being used.

PERSONAL PROTECTION**Respiratory Protection**

Use painters disposable mask. If concentrations may exceed the exposure standards use respirator fitted with an organic vapour filter or SCBA to AS 1716. In confined spaces SCBA or air-supplied full face respirator must be used.

Eye Protection

Use safety glasses with side shields or goggles to AS 1337.

Gloves

Wear neoprene, nitrile or butyl rubber gloves to AS 2161.

Clothing

Wear Tyvec or cotton overalls fastened at the neck and wrist.

Industrial Hygiene

Follow normal industrial / chemical hygiene practices.

FLAMMABILITY:

The product is flammable in the range 1.9 to 13.4 % with a flash point of 38° C. Vapours are heavier than air and may "pool " in low-lying areas. Vapours may travel to a source of ignition and flash back to the point of origin.

SAFE HANDLING INFORMATION**STORAGE AND TRANSPORT**

Store in a cool, well ventilated area in compliance with AS 1940-93 and local regulations. Keep away from oxidisers. Keep lids closed when not in use.

Transport as UN 1992 Flammable liquids, toxic (contains organic tin) PG III in accordance with the ADG Code & Regulations, the IATA DG Regulations or the IMDG Code as applicable to mode of transport.

SPILLS AND DISPOSAL

Prevent material entering drains or waterways. Remove or switch off all potential sources of ignition. Wear full protective clothing including respirator or SCBA. Cover spill with sand or soil and shovel into plastic containers. Seal lids, label and place in a safe area to await disposal. If spill indoors thoroughly ventilate area before re-entry. Disposal must be in accordance with local regulations for hazardous wastes.

FIRE/EXPLOSION HAZARD

Liquid and vapour highly flammable. Fire may produce irritating or poisonous gases. Heat may cause violent rupture of containers. Vapours may travel significant distances to an ignition source and flash back to point of origin. Vapours may form an explosive atmosphere in confined spaces.

DANGEROUS DECOMPOSITION PRODUCTS:

When thermally decomposing emits CO_x, NO_x Oxides of tin and cyanides.

SPECIAL FIRE FIGHTING RECOMMENDATIONS

Keep uninvolved containers cool with water spray. Contain run-off for later collection and controlled disposal.

EXTINGUISHING MEDIA

Foam, dry agent or water delivered as fog or fine spray. Keep uninvolved containers cool with water spray.

PRECAUTIONS

Wear SCBA and full turn-out dress. Avoid contact with product or run-off.

OTHER INFORMATION

Dibutyltin dilaurate is very toxic to farm animals. Spills in agricultural grazing areas must be promptly treated.

Risk and Safety Phrases: R 36/37/38;R 66, R 67, (R 10). (S 2), S 23, S 24, S 25, S 26, S 28, S 38, S 36/37/39

ENVIRONMENTAL FATE

Will not bioaccumulate. Is slow to biodegrade and may remain in soils or water for periods of months rather than days in sub-surface conditions. Will evaporate rapidly from near-surface soil. May leach into ground water table. Is toxic to land & aquatic organisms but is not expected to bioconcentrate in the food chain.

CONTACT POINTS:

Technical enquiries (During normal working hours): 1800 073 530

Emergencies (Spills and Accidents 24 hrs): 1800 033 111

Poisons Information Centre : 13 11 26.

Disclaimer

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