MATERIAL SAFETY DATA SHEET

Product: OceanMaster Everfill Epoxy Resin Filler Base

MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME : Oceanic Link Pte Ltd

ADDRESS : 196 Pandan Loop #01-17 Pantech Industrial Complex Singapore 128384

INFORMATION PHONE : 6777 6001 DATE PREPARED : 12 Dec 2005

REVISION # : 01

HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Hazardous components	CAS NO.	% by weight	OSHA(ppm)
EPOXY SOLUTION	60788-97-4	>52%	NE
CALCIUM CARBONATE	1317-65-3	>15%	NE
TALC	14807-96-6	>24%	NE
TITENIUM DIOXIDE	13463-67-7	>5%	10
NE: Not established			

PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity @ 25° C : 1.43 +/- 0.2Viscosity @ 25° C : N.A Solubility in water : Soluble Flash point : 29^{0} c

FIRE & EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA:

CO2, foam, dry powder; in cases of larger fires, water spray should be used.

FIRE AND EXPLOSION HAZARDS:

Flashback along vapour trial may occur. This material may be ignited by heat, sparks, flame or static electricity. Close containers may explode when exposed to extreme heat.

FIRE FIGHTING PROCEDURES:

The use of a self contained breathing apparatus is recommended for fire fighters. Water spray may be useful in minimizing vapors and cooling containers exposed to heat and flame. Avoid spreading burning liquid with water used for cooling purposes.

REACTIVITY DATA

Stability: Stable

Conditions To Avoid: Do not store above 50 deg C.

Materials To Avoid: Cause exothermic reactions in contact with oxidizing agents, strong acids and amines.

HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

OceanMaster Everfill Epoxy Resin Filler Base

Inhalation of excessive concentrations of vapors or mists may cause headache, dizziness and drowsiness.

FIRST AID: Remove to fresh air. Restore breathing. Treat symptomatically. Consult a physician.

SKIN CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

May cause irritation. Prolonged or repeated contact may cause sensitization.

FIRST AID: Remove contaminated clothing. Wash affected thoroughly with soap and water. Consult a physician if irritation persists.

EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

This product is a severe eye irritant. Direct contact with the liquid or exposure to its vapors or mists may cause burning, tearing, redness and swelling.

FIRST AID: Flush immediately with large amounts of water for at least 15 minutes. Take to physician for medical treatment.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

May cause nausea, headaches and dizziness. May cause droplets to enter the lung with the risk of getting pneumonia.

FIRST AID: Drink 1 or 2 glasses of water to dilute. Do not induce vomiting. Consult physician or poison control center immediately. Treat symptomatically.

TOXICOLOGICAL INFORMATION

Epoxy Solution

Ingestion: Acute oral toxicity: LD50 10000-14000 mg/kg body weight.

Skin contact: Irritating to skin Eye contact: Irritating to eyes.

TRANSPORT INFORMATION

UN No:1263 UN Class:3

SPILL OR LEAK PROCEDURES

IN CASE OF SPILL OR LEAK:

Remove all sources of ignition (flames, hot surfaces and electrical static, or frictional sparks). Avoid breathing vapours, ventilate area. Remove with inert absorbent and non-sparking tools.

DISPOSAL METHOD:

Empty containers may be disposed of after neutralizing any product remaining on the walls of the container with a mixture of isopropanol, ammonia and water. Afterwards, remove warning labels.

SAFE HANDLING AND USE INFORMATION

Wear suitable protective clothing, protective gloves (made of PVC or rubber) and protective goggles/mask. Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of charcoal filter and particulate filter is recommended.

In case of hypersensitivity of the respiratory tract (e.g. asthmatics and those who suffer from chronic bronchitis) it is inadvisable to work with the product.

Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at end of work. Keep working clothes separate. Take off immediately all contaminated clothing.

SPECIAL PRECAUTIONS

HANDLING AND STORAGE

Keep container dry and tightly closed in a cool and well ventilated place. Avoid exposure to temperature above 50 deg C. Ensure adequate ventilation or exhaust ventilation in the working area. Exhaust ventilation necessary if product is sprayed.

Avoid contact with skin and eyes.

Provide adequate ventilation and if necessary, air extraction in working areas. Explosion protection required.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

MATERIAL SAFETY DATA SHEET

Product: OceanMaster Everfill Epoxy Filler Hardener

MANUFACTURER IDENTIFICATION

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HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

<u>Hazardous components</u>	CAS NO.	% by weight	OSHA(ppm)
Aliphatic Polyamide Amine	-	>30%	NE
Phenol	108-95-2	>1.8%	NE
Triethylene Tetramine	112-24-3	>2.5%	NE
Benzyl Alcohol	100-51-67	>4.5%	NE
Cyclohexylamine	1761-71-3	>0.5%	NE
Tale powder	-	>45%	10
Silica	112945-52-5	>5%	10

NE: Not established

PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity @ 25°C : 1.30 +/- 0.2 Viscosity @ 25°C : N.A Solubility in water : Soluble Flash point : NA

FIRE & EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA:

CO2, foam, dry powder; in cases of larger fires, water spray should be used.

FIRE AND EXPLOSION HAZARDS:

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TOXICOLOGICAL INFORMATION

Silica

Acute toxicity

LD/LC 50 values relevant for classification

Acute oral toxicity: LD 50> 10000 mg/kg, rat, literature

Acute dermal toxicity: LD50>5000 mg/kg (limit test), rabbit, OECD 402.

Acute inhalation toxicity: LC50>0.139 mg/l/4h, rat, literature

Primary irritative effect

Primary irritative effect to skin: non-irritative, rabbit, literature Primary irritative effect to the eyes: non-irritative, rabbit, literature

Experiences with human beings

To date handling this product ha not been known to cause any detrimental effects.

Cycloaliphatic amine

Acute oral toxicity (LD50,rat)

1200mg/kg

Acute dermal toxicity (LD50, rabbit)

No data

Acute inhalation toxicity(LC50,rat)

No data

Others acute effects

No data

Irritation effects data

Mild irritant to the skin of a rabbit

Chronic/subchronic data

Mixed polycycoaliphatic amines was tested in rats for systemic effects in a subchronic(28days) oral study at doses ranging from 15 to 300 mg/kg/day. Effects seen at 300 mg/kg/day included decreased survival, secreased body weight gain, increased liver, kidney, and adrenal weights and histological changes in the liver, kidney, adrenals and spleen. The No-observed-Adverse-Effect-Level(NOAEL) was 15 mg/kg/day. Component has caused allergic sensitization in animal.

TRANSPORT INFORMATION

UN No:NA UN Class:NA

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