

## MATERIAL SAFETY DATA SHEET

PRODUCT NAME : OceanMaster Polygloss Base Series

### SECTION I – MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME : Oceanic Link Pte Ltd  
ADDRESS : 196 Pandan Loop Pantech Business Hub  
#01-17 Singapore 128384  
CONTACT NO. : +65 67776001  
DATE PREPARED : 02 January 2009  
REVISION NO. : 02

### SECTION II – HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Hazardous components	CAS NO.	% by weight	OSHA (ppm)
*****			
Polyester Polyol	---	< 30%	N.E
Alkyd Resin Solution	---	< 30%	N.E
Ethylbenzene	100-41-4	< 2%	100
2-methoxy-1methylethyl acetate	108-65-6	< 5%	50
Xylene	1330-20-7	< 10%	100
Methyl Isobutyl Ketone	108-10-1	< 10%	50
Butyl Acetate	123-86-4	< 5%	150
Methyl Ethyl Ketone	78-93-3	< 10%	200

\*\*\*\*\*

N.E – Not Established

### SECTION III – PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity @ 28°C : 1.10 – 1.40  
Viscosity @ 28°C : 65 +/-2 KU  
Boiling point/range : 79.6 - 156 °C  
Solubility in water : Insoluble  
Flash point : 15°C

### SECTION IV – FIRE & EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA: CO<sub>2</sub>, foam, dry powder; in cases of larger fires, water spray should be used.

#### FIRE AND EXPLOSION HAZARDS:

Flashback along vapour trail 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.

## **SECTION V – REACTIVITY DATA**

Hazardous decomposition products: No hazardous decomposition products when stored and handled correctly.

Hazardous reactions: Exothermic reaction with amines and alcohols; reacts slowly with water forming CO<sub>2</sub>, in closed containers risk of bursting owing to increase of pressure.

## **SECTION VI – HEALTH HAZARD DATA**

### **INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

Inhalation of excessive concentrations of vapors or mists may cause fatigue, convulsions, unconsciousness, headache, dizziness, nausea, drowsiness and irritation to the nose and mucous membranes.

FIRST AID: Remove to fresh air. Restore breathing. Get medical attention. Call a physician.

### **SKIN CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

May cause irritation. Prolonged or repeated contact may cause sensitization, scaling and dermatitis.

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

### **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, inflammation and swelling.

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

### **INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

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

FIRST AID: Rinse mouth with water. Drink 1 to 2 glasses of water to dilute. Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Consult physician or poison control center immediately. Treat symptomatically.

## **SECTION VII – TOXICOLOGICAL INFORMATION**

### **Polyester Polyol**

Acute toxicity: LD50 oral, rat: > 2500 mg/kg

Skin and mucous membrane compatibility, rabbit

Skin 24 hours exposure: no findings

Eye contact: no findings

### **Xylene**

PEL (long term): 100 ppm

PEL (short term): 150 ppm

### **Methyl Isobutyl Ketone**

Acute toxicity: LD50 oral, rat: >2080 mg/kg

Eye/Skin irritation: irritant

**Butyl Acetate**

Acute toxicity: LD50 oral, rat: 10700 to 14130 mg/kg

Skin irritation: not skin sensitizer

Eye irritation: moderately irritating to rabbit eyes

**Methyl Ethyl Ketone**

Acute toxicity: LD50 oral: > 2000 mg/kg

Eye irritation: irritant

Skin irritation: slight irritant, not a skin sensitizer

**SECTION VIII – TRANSPORT INFORMATION**

UN Number / Class: UN1263 / Class 3

Packing Group: PG III

HS Code: 320890

**SECTION IX – 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 in vapour, ventilate area. Remove with inert absorbent and non-sparking tools.

**DISPOSAL METHOD:**

Whatever cannot be saved for recovery may be burned in an approved incinerator or disposed in an approved waste facility. Ensure compliance with local, state and federal regulations.

**SECTION X – 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.

**SECTION XI – SPECIAL PRECAUTIONS**

**HANDLING AND STORAGE**

Keep container dry and tightly closed in a cool and well-ventilated place. Avoid exposure to temperature above 50°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 NAME : OceanMaster Polygloss Hardener

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#01-17 Singapore 128384  
CONTACT NO. : +65 67776001  
DATE PREPARED : 2 January 2009  
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### SECTION II – HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Hazardous components	CAS NO.	% by weight	OSHA (ppm)
*****			
Aliphatic Polyisocyanate	---	< 80%	N.E
Hexamethylene-1, 6-diisocyanate	822-06-0	< 2%	< 1
Xylene	1330-20-7	< 10%	100
Ethylbenzene	100-41-4	< 5%	100
2-methoxy-1-methylethyl acetate	108-65-6	< 20%	50
Butyl Acetate	123-86-4	< 15%	150
*****			

N.E – Not Established

### SECTION III – PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity : 1.03 +/- 0.02  
Boiling point : 145 °C  
Solubility in water : Insoluble  
Flash point : 23 °C  
Ignition temperature : 460 °C

### SECTION IV – FIRE & EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA: CO<sub>2</sub>, foam, dry powder; in cases of larger fires, water spray should be used.

#### FIRE AND EXPLOSION HAZARDS:

Flashback along vapour trail 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.

## **SECTION V – REACTIVITY DATA**

Hazardous decomposition products: No hazardous decomposition products when stored and handled correctly.

Hazardous reactions: Exothermic reaction with amines and alcohols; reacts slowly with water forming CO<sub>2</sub>, in closed containers risk of bursting owing to increase of pressure.

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May cause irritation. Prolonged or repeated contact may cause sensitization, scaling and dermatitis.

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### **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, inflammation and swelling.

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

### **INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

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

FIRST AID: Rinse mouth with water. Drink 1 to 2 glasses of water to dilute. Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Consult physician or poison control center immediately. Treat symptomatically.

## **SECTION VII – TOXICOLOGICAL INFORMATION**

### **Aliphatic Polyisocyanate**

Acute toxicity: LD50 oral, rat: > 5000 mg/kg

Skin irritation: slight irritant

Eye irritation: slight irritant

### **Xylene**

PEL (long term): 100 ppm

PEL (short term): 150 ppm

### **Butyl Acetate**

Acute toxicity: LD50 oral, rat: 10700 to 14130 mg/kg

Skin irritation: not skin sensitizer

Eye irritation: moderately irritating to rabbit eyes

## **SECTION VIII – TRANSPORT INFORMATION**

UN Number / Class: UN1263 / Class 3  
Packing Group: PG III  
HS Code: 320890

### **SECTION IX – SPILL OR LEAK PROCEDURES**

#### IN CASE OF SPILL OR LEAK:

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#### DISPOSAL METHOD:

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### **SECTION X – 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.

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