

MATERIAL SAFETY DATA SHEET

Product : OceanMaster Epoxy Repair Kit Epoxy Hardener

MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME : Oceanic Link Pte Ltd
ADDRESS : 196 Pandan Loop #01-17 Pantech Business Hub Singapore 128384
INFORMATION PHONE : 6777 6001
DATE PREPARED : 30 April 2010

HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

<u>Hazardous components</u>	<u>CAS No.</u>	<u>% by weight</u>
Polyaminoamide resin	---	<40%
Toluene	108-88-3	<60%

PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity @ 25°C : 0.90
Viscosity @ 25°C : No data
Colour : Clear, amber
Odour : Solvent odour
Boiling point/range : 110 °C
Solubility in water : Insoluble
Flash point : 4.4 °C
Ignition temperature : 365 °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 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.

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 and strong acids and organic halides.

HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

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 metal poisoning (lead). 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.

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 Epoxy Repair Kit Epoxy Resin

MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME : Oceanic Link Pte Ltd
ADDRESS : 196 Pandan Loop #01-17 Pantech Business Hub Singapore 128384
INFORMATION PHONE : 6777 6001
DATE PREPARED : 30 April 2010

HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

<u>Hazardous components</u>	<u>CAS No.</u>	<u>% by weight</u>
Epoxy resin	---	20 - 40%
Methyl isobutyl ketone	108-10-1	<10%
N-Butanol	71-36-3	<10%
Xylene	1330-20-7	<10%
Titanium Dioxide	13463-67-7	<20%

PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity @ 25°C : 1.55
Viscosity @ 25°C : 75 KU
Boiling point/range : 114 - 137 °C
Solubility in water : Insoluble
Flash point : 23 °C
Ignition temperature : 365 °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 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.

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:

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 metal poisoning(lead), 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.

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.