

Page 1 of 4

Date of Issue: 13 March 2015 Revised Date: 13 March 2015

### (1) CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product Details

Product Name : Optoelectronic epoxy resin Manufacturer's Code : SM0331UV (part B)

Use : Clear epoxy hardener for encapsulating of mainly optoelectronics

devices

# 1.2 Company Identification

Manufacturer's Name : Oriem Technology Sdn. Bhd.

Manufacturer's Address : Plot 25, Bayan Lepas Industrial Estate,

Non-FTZ, Phase 4, 11900 Bayan Lepas,

Penang, Malaysia.

Tel. No. : +6-04-642 6363
Fax. No : +6-04-642 6369
Email : sales@cape.com.my
http://www.cape.com.my

1.3 Emergency Telephone

Designation : Managing Director Tel. No. : +6-04-642 6363

#### (2) HAZARD IDENTIFICATION

# Hazard pictogram



Signal word: Harmful Most important hazards: Harmful if swallowed

Causes skin and eye irritation

## (3) COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name / Chemical Group	CAS No.	<b>Proportion</b>	Exposure Limit
Methylhexahydrophthalic anhydride with	19438-60-9	80%	Not established
Cycloaliphatic anhydride	85-42-7	20%	Not established

#### (4) FIRST AID MEASURES

Ingestion : Induce vomiting. Get medical attention immediately.

Eye contact : Immediately flush with plenty of water for at least 15 minutes.

Get medical attention.

Skin contact : Immediately flush with plenty of water for at least 15 minutes.

Get medical attention.

Inhalation : Remove victim to fresh air. If breathing is difficult, give

oxygen

Page 2 of 4

### (5) FIRE FIGHTING MEASURES

Extinguishing Media : Use dry chemical, foam, water jet or carbon dioxide

Fire Fighting Instruction : Shut off fuel to fire if it is possible to do so without hazard.

For small out door fires, portable fire extinguishers may be used, and self contained breathing apparatus (SCBA) may

not be required. Respiratory and eye protections are required for fire fighting

personnel.

Special hazards : COx as decomposition products.

#### (6) ACCIDENTAL RELEASE MEASURES

Leak / Spill : Absorb with sand or sawdust.

Report as per regulatory requirements.

Environmental

Protection : Do not allow to enter drainage system, surface or ground water.

### (7) HANDLING AND STORAGE

Handling : No special precaution is necessary. Observed good industrial

housekeeping practices as for any rubber material. Prevent contact with eyes

and skin. Wear goggles and rubber gloves.

Storage : Store in cool & dry place in tightly closed containers.

### (8) EXPOSURE CONTROL AND PERSONAL PROTECTION

#### a. Exposure Limit

Chemical Name	Standards*	Reference
Methylhexahydrophthalic	N.E.	OSHA, ACGIH
anhydride		
Proprietary additives	N.E.	OSHA, ACGIH

NOTE: \* Eight-hour time-weighted average exposure unless stated otherwise

 $N.E.-Not\ Established$ 

OSHA – Occupational Safety and Health Act

ACGIH – American Conference of Government Industrial Hygienists

#### b. Ventilation

Use general or local exhausts ventilation.

## c. Personal Protection

Eye/skin protection : Safety goggles & cotton gloves are recommended.

Respiratory Protection : Not required where adequate ventilation conditions exist but face

mask is advised. If airborne concentration exceeds exposure level, a

high efficiency particulate respirator is recommended.

Page 3 of 4

### (9) PHYSICAL AND CHEMICAL PROPERTIES

Apperance : Clear/ slightly yellowish liquid

Odour : Aromatic Solubility : Slightly soluble Boiling Point (°C) : 145 @ 3mm Hg Crystalline point (°C) : Not applicable Vapour Pressure (mm of Hg at 25°C) : Not determined Percentage Volatiles : Not determined **Evaporation Rate** : Not established Vapour Density : Not applicable

Flash Point (°C) : 149

Autoignition Temperature (°C) : Not established

Decomposition Temperature (°C) :> 220

Flammable limit (%) : Not available Explosive/oxidizing properties : Not to be expected

### (10) STABILITY AND REACTIVITY

Stability : Stable under ordinary conditions of use and storage.

Conditions to avoid : Excess heat, flame and sources of ignition

Incompatibles : Acid, base, hydrocarbon solvent and oxidizing materials

Decompositions Products: Oxide of carbon, nitrogen

Hazardous polymerization: Will not occur by itself, but masses more than 500g of

products with an aliphatic amine will cause irreversible

polymerization with considerable heat buildup.

### (11) TOXICOLOGICAL INFORMATION

Toxicity Data

Oral : LD50 4.040mg/kg (rat)

Carcinogenicity

No data

Reproductive Effect

No data

Effects of overexposure

The product has primary irritant effect on the skin, mucous membranes, and eyes

Chronic Effects

No data

Target Organs

Eyes and skin

Page 4 of 4

## (12) ECOLOGICAL INFORMATION

No data available

#### (13) DISPOSAL INFORMATION

Disposal of waste to be carry out at the city, state or federally permitted disposal facility. Handle in accordance with applicable regulations and/or local authorities.

### (14) TRANSPORTATION INFORMATION

Land transport ADR/RID (cross-border) ADR/RID Class: Not Regulated.

Maritime transport IMDG IMDG Class: Not Regulated

Air transport ICAO-TI and IATA-DGR ICAO/IATA Class: Not Regulated

### (15) REGULATORY INFORMATION

This product has been adopted according to the GHS of Classification and Labeling of Chemicals worldwide, and the SDS contains all required information.

### (16) OTHER INFORMATION

- a. Proposed classification: Irritant
- b. Hazard statement

H302 Harmful if swallowed H315/320 Irritate to eyes and skin

c. Precautionary statement

P280 Wear suitable gloves and face protection

P338 Removes contact lenses, if present and easy to do. Continue rinsing

P351 Rinse cautiously with water for several minutes

P352 Wash with plenty of soap and water

## WARRANTY AND DISCLAIMER

The information contained herein is to the best of our knowledge true and accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Oriem Technology Sdn Bhd assumes no responsibility for any personal injury or property damage of any kind to vendees, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material. The above includes confidential and proprietary information of Oriem Technology Sdn Bhd and is furnished to you solely on product processes supplied by us to you.