



## (1) CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product Details

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

<i>Chemical Name / Chemical Group</i>	<i>CAS No.</i>	<i>Proportion</i>	<i>Exposure Limit</i>
Diglycidyl Ether of Bisphenol A	25085-99-8	97.5%	Not established
Blue Pigment	N/A	< 1%	Not established
Proprietary additives	Unknown	< 1%	Not established
UV Additive	104810-48-2	< 0.5%	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

**(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*

<i>Chemical Name</i>	<i>Standards*</i>	<i>Reference</i>
Epoxy resins	N.E.	OSHA, ACGIH
Blue pigment	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.

#### **(9) PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: Bluish liquid
Odour	: Not available
Solubility	: None in water
Boiling Point (°C)	: Not applicable
Vapour Pressure (mm of Hg at 25°C)	: Not applicable
Percentage Volatiles	: Not determined
Evaporation Rate	: Not established
Vapour Density	: Not applicable
Flash Point (°C)	: > 240
Autoignition Temperature (°C)	: Not established
Decomposition Temperature (°C)	: > 350
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 >5000mg/kg (rat)
Skin	: LD50 20000mk/kg (rabbit)

##### 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

