riem

MSDS-LH1622 (Part A)-A

Page 1 of 4

Date of Issue: 1 Sep 2008 Revised Date: 13 July 2012

# (1) CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Details

Product Name : Manufacturer's Code : Use :	Optoelectronic epoxy resin LH 1622 (Part A) Clear epoxy resin for encapsulating of mainly LED Lamps and Radial devices
Company Identification	

# 1.2 <u>Company Identification</u>

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.
Distributor's Name	:	Oriem Technology Sdn. Bhd.
Distributor's Address	:	Plot 25, Bayan Lepas Industrial Estate,
		Non-FTZ, Phase 4, 11900 Bayan Lepas,
		Penang, Malaysia.
Tel. No.	:	+6-04-642 6363
Emergency Tel. No.	:	+6-04-642 6366
Contact Point		

# 1.3 Contact Point

Designation Tel. No.	:	Manager +6-04-642 6363
-------------------------	---	---------------------------

## (2) COMPOSITION / INFORMATION ON INGREDIENTS

<u> Chemical Name / Chemical Group</u>	CAS No.	<b>Proportion</b>	Exposure Limit
Diglycidyl Ether of Bisphenol A	25068-38-6	69.85%	Not established
Epoxy Novalac	028064-14-4	30%	Not established
UV Additive	104810-48-2	0.1%	Not established
Waxoline violet A FW	81-48-1	0.05%	Not established

### (3) PHYSICAL AND CHEMICAL PROPERTIES

Apperance Odour pH Solubility Boiling Point (°C) Crystalline point (°C)	:	Blue liquid Weak epoxy Mild alkaline Slightly soluble > 200 Not applicable
Vapour Pressure (mm of Hg at 25°C) Percentage Volatiles Evaporation Rate Vapour Density Specific Gravity Flash Point (°C) Autoignition Temperature (°C) Decomposition Temperature (°C) Flammable limit (%) Explosive/oxidizing properties		Not determined Not determined Not applicable Not applicable 1.16 - 1.18 > 250 460 > 200 Not available Not to be expected

HAZARD IDENTIFICATION

(4)

Page 2 of 4

(+)					
	R 51/53	Irritating to eyes a		v cause long-term adverse e	ffects in aquatic
(5)	FIRST AID MEASU	JRES			
	Ingestion		Induce vomiti attention.	ng and then drink plenty of	water. Get medical
	Eye contact		Immediately f Get medical a	lush with plenty of water for the tention.	or at least 15 minutes.
	Skin contact		Immediately f Get medical a	lush with plenty of water for the tention.	or at least 15 minutes.
	Inhalation		Remove victin give oxygen.	n to fresh air. If breathing is	s difficult,
(6)	FIRE FIGHTING M	IEASURES			
	Extinguishing Me Fire Fighting Instr	uction : S	Shut off fuel t For small out used, and self not be require	ical, foam, water jet or carb o fire if it is possible to do s door fires, portable fire exti contained breathing appara d. Respiratory and eye pro	so without hazard. nguishers may be tus (SCBA) may
	Special hazards		<ul><li>for fire fighting personnel.</li><li>COx as decomposition products.</li></ul>		
(7)	ACCIDENTAL RE	LEASE MEASUR	RES		
	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.		
(8)	HANDLING AND S	TORAGE			
	Handling	housekee	No special precaution is necessary. Observed good industrial housekeeping practices as for any chemical. Prevent contact with eyes and skin. Wear appears and rubbar alouses		
	Storage		and skin. Wear goggles and rubber gloves. Store in cool & dry place in tightly closed containers.		
(9) EX	<b>XPOSURE CONTR</b>	OL AND PERSO	NAL PROTI	ECTION	
	a. <u>Exposure Lim</u>	<u>it</u>			
	Chemical Name			Reference	]
	Epoxy resins	N.		OSHA, ACGIH	4
	Blue pigment	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. <u>Ventilation</u>

Use general or local exhaust ventilation.

 c. <u>Personal Protection</u> Eye/skin protection : Safety goggles & cotton gloves are recommended. 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.

# (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
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 >11400mg/kg (rat) Dermal: LD50 >2000mg/kg (rabbit)

<u>Carcinogenicity</u> Not applicable

<u>Reproductive Effect</u> Not applicable

#### Effects of overexposure

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

<u>Chronic Effects</u> Not available

<u>Target Organs</u> Eyes and skin

# (12) ECOLOGICAL INFORMATION

Mobility	:	Not miscible in water
Bioaccumulation	:	Low bioconcentration factor (BCF)
Biodegradability	:	Slightly biodegradable.
Aquatic Toxicity	:	Rainbow trout: $LC50/96h = 1.5 - 7.7mg/l$
		Daphnia magna: $EC50/24h = 1.1 - 3.6 \text{ mg/l}.$
Environmental Toxicity	:	No information found

### (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.

Page 4 of 4

#### (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

Designation according to EC: Symbol N

a. Proposed classification : Irritant

Risk Phrase *b*.

R22	Harmful if swallowed
R36/38	Irritating to eyes and skin

- Safety Phrases C.
  - After contact with skin, wash immediately with plenty of soap and water S28 Wear suitable gloves and face protection S37/39

  - S61 Avoid release to the environment. Refer to special instruction / safety data sheet

### (16) OTHER INFORMATION

#### 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.