



# Material Safety Data Sheet

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identification

**Product ID:** LICP201  
Product Name: EPOXY PRIMER - WHITE  
Product Use: Paint product.  
Print date: 14/Sep/2009  
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### Company Identification

De Beer Australasia Pty Ltd  
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### 24-Hour Medical Emergency

**Phone:** Poisons Information Centre: Australia 131 126

## 2. HAZARDS IDENTIFICATION

### Primary Routes of Exposure:

Inhalation  
Ingestion  
Skin absorption

### Eye Contact:

- Severe eye irritation
- Risk of serious damage to eyes.

### Skin Contact:

- May cause defatting of the skin.
- Causes skin irritation.
- Dermatitis
- May cause sensitization by skin contact.

### Ingestion:

- Irritation of the mouth, throat, and stomach.
- Harmful if swallowed.
- Aspiration hazard if swallowed - can enter lungs and cause damage.

### Inhalation:

- Causes respiratory tract irritation.
- Harmful by inhalation.
- May cause bronchopneumonia or bronchitis.

**Target Organ and Other Health Effects:**

- Causes headache, drowsiness or other effects to the central nervous system.
- Liver injury may occur.
- Kidney injury may occur.
- Blood disorders

**This product contains ingredients that may contribute to the following potential chronic health effects:**

- Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
- Systemic toxicity
- Prolonged exposure over TLV may produce pneumoconiosis.
- Possible sensitization.

**Carcinogens:**

- Possible cancer hazard. Contains material which may cause cancer based on animal data.

**3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS**

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
TITANIUM DIOXIDE 13463-67-7	20 - 25	Titanium dioxide
PROPRIETARY INERT	10 - 15	PROPRIETARY INERT
PROPRIETARY RESIN	5 - 10	PROPRIETARY RESIN
METHYL ETHYL KETONE 78-93-3	5 - 10	Methyl ethyl ketone
METHYL N-AMYL KETONE 110-43-0	5 - 10	Heptan-2-one
ZINC OXIDE 1314-13-2	5 - 10	ZINC OXIDE
PROPRIETARY RESIN	5 - 10	PROPRIETARY RESIN
BUTYL ACETATE 123-86-4	1 - 5	n-Butyl acetate
AROMATIC NAPHTHA, LIGHT 64742-95-6	1 - 5	Petroleum naphtha, light aromatic
PROPRIETARY INERT	1 - 5	PROPRIETARY INERT
1,2,4-TRIMETHYLBENZENE 95-63-6	1 - 5	PSEUDO CUMENE

If this section is blank there are no hazardous components per OSHA guidelines.

**4. FIRST AID MEASURES****Eye Contact:**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If medical assistance is not immediately available, flush an additional 15 minutes. Get medical attention immediately.

**Skin Contact:**

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

**Ingestion:**

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention immediately.

**Inhalation:**

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration.

**Medical conditions aggravated by exposure:**

Any respiratory or skin condition.

## 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	42°F (6°C)
Lower explosive limit:	1 %
Upper explosive limit:	16 %
Autoignition temperature:	not determined -°F (°C)
Sensitivity to impact:	no
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

**Unusual fire and explosion hazards:**

None known.

**Extinguishing media:**

Carbon dioxide, dry chemical, foam and/or water fog.

**Fire fighting procedures:**

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

**Action to be taken if material is released or spilled:**

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid all personal contact.

## 7. HANDLING AND STORAGE

**Precautions to be taken in handling and storage:**

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

## 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

## Personal Protective Equipment

### Eye and face protection:

Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.

### Skin protection:

Gloves: Neoprene or other nonporous.

### Other Personal Protection Data:

To prevent skin contact wear protective clothing covering all exposed areas. Ensure that eyewash stations and safety showers are close to the workstation location. Chemical resistant apron

### Respiratory protection:

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

## Exposure Guidelines

### OSHA Permissible Exposure Limits (PEL's)

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
TITANIUM DIOXIDE 13463-67-7	20 - 25	15 mg/m <sup>3</sup> Total dust.		
PROPRIETARY INERT	10 - 15	5 mg/m <sup>3</sup> Respirable fraction. 15 mg/m <sup>3</sup> Total dust.		
METHYL ETHYL KETONE 78-93-3	5 - 10	590 mg/m <sup>3</sup> 200 ppm		
METHYL N-AMYL KETONE 110-43-0	5 - 10	465 mg/m <sup>3</sup> 100 ppm		
ZINC OXIDE 1314-13-2	5 - 10	5 mg/m <sup>3</sup> Fume. 5 mg/m <sup>3</sup> Respirable fraction. 15 mg/m <sup>3</sup> Total dust.		
BUTYL ACETATE 123-86-4	1 - 5	710 mg/m <sup>3</sup> 150 ppm		
PROPRIETARY INERT	1 - 5	5 mg/m <sup>3</sup> Respirable fraction. 15 mg/m <sup>3</sup> Total dust. Respirable fraction. Listed. Total dust. Listed.		

### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
TITANIUM DIOXIDE 13463-67-7	20 - 25	10 mg/m <sup>3</sup>			

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
PROPRIETARY INERT	10 - 15	10 mg/m <sup>3</sup> The value is for particulate matter containing no asbestos and <1% crystalline silica.			
METHYL ETHYL KETONE 78-93-3	5 - 10	200 ppm	300 ppm		
METHYL N-AMYL KETONE 110-43-0	5 - 10	50 ppm			
ZINC OXIDE 1314-13-2	5 - 10	2 mg/m <sup>3</sup> Respirable fraction.	10 mg/m <sup>3</sup> Respirable fraction.		
BUTYL ACETATE 123-86-4	1 - 5	150 ppm	200 ppm		
PROPRIETARY INERT	1 - 5	10 mg/m <sup>3</sup>			
1,2,4-TRIMETHYLBENZENE 95-63-6	1 - 5	25 PPM			

## 9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	liquid
pH:	not determined
Vapor pressure:	75.9398496 mmHg @ 68°F (20°C)
Vapor density (air = 1.0):	4.3
Boiling point:	not determined
Solubility in water:	not determined
Coefficient of water/oil distribution:	not determined
Density (lbs per US gallon):	13.49
Specific Gravity:	1.62
Evaporation rate (butyl acetate = 1.0):	5.7
Flash point (Fahrenheit):	42°F (6°C)
Lower explosive limit:	1 %
Upper explosive limit:	16 %
Autoignition temperature:	not determined -°F (°C)

## 10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Heat.
Incompatibility:	Strong oxidizing agents
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Silicon dioxide. Carbon monoxide and carbon dioxide. Metal oxide fumes.

**Sensitivity to static discharge:** Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

## 11. TOXICOLOGICAL INFORMATION

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Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
PROPRIETARY INERT	10 - 15	Oral LD50 Rat : 6450 mg/kg
METHYL ETHYL KETONE 78-93-3	5 - 10	Inhalation LC50 Rat : 23500 mg/m <sup>3</sup> /8H Inhalation LC50 Mouse : 32 gm/m <sup>3</sup> /4H Oral LD50 Rat : 2737 mg/kg Oral LD50 Mouse : 4050 mg/kg Dermal LD50 Rabbit : 6480 mg/kg
METHYL N-AMYL KETONE 110-43-0	5 - 10	Oral LD50 Rat : 1670 mg/kg Oral LD50 Mouse : 730 mg/kg Dermal LD50 Rabbit : 12600 uL/kg
ZINC OXIDE 1314-13-2	5 - 10	Inhalation LC50 Mouse : 2500 mg/m <sup>3</sup> Oral LD50 Mouse : 7950 mg/kg
PROPRIETARY RESIN	5 - 10	SL6475000:Phenol, 4,4'-isopropylidenedi-, polymer with 1-chloro-2,3-epoxypropane (10/1/97) Oral LD50 Rat : 11400 mg/kg Oral LD50 Mouse : 15600 mg/kg
BUTYL ACETATE 123-86-4	1 - 5	Inhalation LC50 Rat : 2000 ppm/4H Inhalation LC50 Mouse : 6 gm/m <sup>3</sup> /2H Oral LD50 Rat : 10768 mg/kg Oral LD50 Mouse : 6 gm/kg Dermal LD50 Rabbit : >17600 mg/kg
AROMATIC NAPHTHA, LIGHT 64742-95-6	1 - 5	Oral LD50 Rat : 8400 mg/kg
1,2,4-TRIMETHYLBENZENE 95-63-6	1 - 5	Inhalation LC50 Rat : 18 gm/m <sup>3</sup> /4H Oral LD50 Rat : 5 gm/kg

### Mutagens/Teratogens/Carcinogens:

Possible mutagen

Possible cancer hazard. Contains material which may cause cancer based on animal data.

Contains TIO<sub>2</sub> which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO<sub>2</sub> provide an adequate basis to conclude TIO<sub>2</sub> is carcinogenic. TIO<sub>2</sub> is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
TITANIUM DIOXIDE 13463-67-7	20 - 25			2B Possible Carcinogen

## 12. ECOLOGICAL DATA

No information on ecology is available.

## 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

## 14. TRANSPORTATION INFORMATION

### U.S. Department of Transportation

## 14. TRANSPORTATION INFORMATION

Proper Shipping Name: PAINT  
Hazard Class: 3  
UN ID Number (msds): UN1263  
Packing Group: II  
Hazardous Ingredient (Land) 1 METHYL ETHYL KETONE  
Hazardous Ingredient (Land) 2 BUTYL ACETATE

### U.S. Highway & Rail Shipments

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

### Reportable Quantity Description:

#### International Air Transport Association (IATA):

Proper Shipping Name: Paint  
Hazard Class: 3  
UN ID Number (msds): UN1263  
Packing Group: II  
IATA N.O.S. Technical Name 1 METHYL ETHYL KETONE  
IATA N.O.S. Technical Name 2 BUTYL ACETATE

#### International Maritime Organization (IMO):

Proper Shipping Name: PAINT  
Hazard Class: 3  
IMO UN/ID Number (msds): UN1263  
Packing Group: II  
IMDG N.O.S. Technical Name 1 METHYL ETHYL KETONE  
IMDG N.O.S. Technical Name 2 BUTYL ACETATE

## 15. REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS:

Ingredient Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
METHYL ETHYL KETONE 78-93-3	5 - 10			5000
ZINC OXIDE 1314-13-2	5 - 10		YES	
BUTYL ACETATE 123-86-4	1 - 5			5000
1,2,4-TRIMETHYLBENZENE 95-63-6	1 - 5		Listed.	

### SARA 311/312 Hazard Class:

Acute: yes  
Chronic: yes  
Flammability: yes  
Reactivity: no  
Sudden Pressure: no

### U.S. STATE REGULATIONS:

**Right to Know:**

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

**Pennsylvania Right To Know:**

BUTYL ACETATE	123-86-4
PROPRIETARY INERT	Trade Secret
PROPRIETARY INERT	Trade Secret
TITANIUM DIOXIDE	13463-67-7
ZINC OXIDE	1314-13-2
PROPRIETARY RESIN	Trade Secret
PROPRIETARY RESIN	Trade Secret
METHYL ETHYL KETONE	78-93-3
METHYL N-AMYL KETONE	110-43-0
AROMATIC NAPHTHA, LIGHT	64742-95-6
1,2,4-TRIMETHYLBENZENE	95-63-6

**Additional Non-Hazardous Materials**

PROPRIETARY INERT	Trade Secret
PROPRIETARY INERT	Trade Secret

**Rule 66 status of product**

Not photochemically reactive.

**INTERNATIONAL REGULATIONS - Chemical Inventories****US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

**Canada Domestic Substances List:**

Not all components in this product are listed on the Domestic Substances List.

**16. OTHER INFORMATION****HMIS Codes**

<b>Health:</b>	2*
<b>Flammability:</b>	3
<b>Reactivity:</b>	1
<b>PPE:</b>	X - See Section 8 for Personal Protective Equipment (PPE).

**Abbreviations:**

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.



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