

## LAMINEX FREESTYLE PLEXUS - CATALYST COMPONENT

Chemwatch Material Safety Data Sheet  
Issue Date: 30-Jul-2009  
XC9317EC

CHEMWATCH 62273-1  
Version No:4  
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### Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### PRODUCT NAME

LAMINEX FREESTYLE PLEXUS - CATALYST COMPONENT

#### SYNONYMS

., "benzoyl peroxide dibenzoyl peroxide acrylic resin initiator"

#### PROPER SHIPPING NAME

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(contains dibutyl phthalate)

#### PRODUCT USE

» - Material is mixed and used in accordance with manufacturers directions.

Activator for two pack acrylic adhesive. When combined with Freestyle Plexus resin it is used to bond Freestyle solid surface sheets together.

#### SUPPLIER

Company: The Laminex Group

Address:

PO Box 407

Doncaster

VIC, 3108

AUS

Telephone: +61 3 8348 4811

Emergency Tel: 1800 039 004

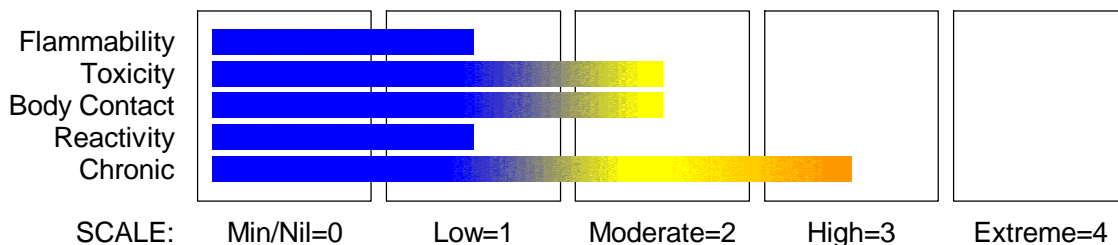
Fax: +61 3 9840 6513

### Section 2 - HAZARDS IDENTIFICATION

#### STATEMENT OF HAZARDOUS NATURE

**HAZARDOUS SUBSTANCE. DANGEROUS GOODS.** According to the Criteria of NOHSC, and the ADG Code.

#### CHEMWATCH HAZARD RATINGS



#### POISONS SCHEDULE

S5

#### RISK

Risk Codes

R43

R50/53

R58

R61(2)

R62(3)

R66

Risk Phrases

» May cause SENSITISATION by skin contact.

» Very toxic to aquatic organisms may cause long- term adverse effects in the aquatic environment.

» May cause long- term adverse effects in the environment.

» May cause harm to the unborn child.

» Possible risk of impaired fertility.

» Repeated exposure may cause skin dryness and cracking.

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Section 2 - HAZARDS IDENTIFICATION

## SAFETY

Safety Codes	Safety Phrases
S53	» Avoid exposure - obtain special instructions before use.
S401	» To clean the floor and all objects contaminated by this material use water and detergent.
S26	» In case of contact with eyes rinse with plenty of water and contact Doctor or Poisons Information Centre.
S46	» If swallowed IMMEDIATELY contact Doctor or Poisons Information Centre. (show this container or label).
S60	» This material and its container must be disposed of as hazardous waste.

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS RN	%
dibenzoyl peroxide	94-36-0	50
phthalate phlegmatiser		50

## Section 4 - FIRST AID MEASURES

### SWALLOWED

- » - If swallowed do NOT induce vomiting.
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

### EYE

- » If this product comes in contact with the eyes:
- Wash out immediately with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

### SKIN

- » If skin contact occurs:
- Immediately remove all contaminated clothing, including footwear.
- Flush skin and hair with running water (and soap if available).

### INHALED

- » - If fumes or combustion products are inhaled remove from contaminated area.
- Other measures are usually unnecessary.

### NOTES TO PHYSICIAN

- » Treat symptomatically.

## Section 5 - FIRE FIGHTING MEASURES

### EXTINGUISHING MEDIA

- » - Foam.
- Dry chemical powder.

### FIRE FIGHTING

- » - Alert Fire Brigade and tell them location and nature of hazard.
  - Wear breathing apparatus plus protective gloves.
- When any large container (including road and rail tankers) is involved in a fire, consider evacuation by 1000 metres in all directions.

### FIRE/EXPLOSION HAZARD

- » - Combustible.
  - Slight fire hazard when exposed to heat or flame.
- Combustion products include: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), other pyrolysis products typical of burning organic material.
- Benzoyl peroxide decomposes when heated with formation of dense white toxic smoke of benzoic acid, phenyl benzoate, terphenyls, biphenyls, and carbon dioxide.

### FIRE INCOMPATIBILITY

- » - Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.

### HAZCHEM: None

### Personal Protective Equipment

Gas tight chemical resistant suit.

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### Section 6 - ACCIDENTAL RELEASE MEASURES

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#### EMERGENCY PROCEDURES

##### MINOR SPILLS

- » Environmental hazard - contain spillage.
- Slippery when spilt.
- Clean up all spills immediately.
- Avoid contact with skin and eyes.

##### MAJOR SPILLS

- » Environmental hazard - contain spillage.
- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- Slippery when spilt.

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

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### Section 7 - HANDLING AND STORAGE

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#### PROCEDURE FOR HANDLING

- » - Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.

#### SUITABLE CONTAINER

- » - Metal can or drum
- Packaging as recommended by manufacturer.

#### STORAGE INCOMPATIBILITY

- » - Avoid reaction with oxidising agents.
- Avoid strong acids, acid chlorides and acid anhydrides..
- Avoid strong bases.
- Avoid reaction with amines.

#### STORAGE REQUIREMENTS

- » - Store in original containers.
- Keep containers securely sealed.

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### Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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#### EXPOSURE CONTROLS

Source	Material	TWA mg/m <sup>3</sup>
Australia Exposure Standards	dibenzoyl peroxide (Benzoyl peroxide)	5

#### PERSONAL PROTECTION

##### RESPIRATOR

Type ANO-P Filter of sufficient capacity

##### EYE

- » - Safety glasses with side shields.
- Chemical goggles.

##### HANDS/FEET

- » - Wear chemical protective gloves, eg. PVC.
- Wear safety footwear or safety gumboots, eg. Rubber.

##### NOTE:

- The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.
- Polyethylene gloves.

##### OTHER

- » - Overalls.
- P.V.C. apron.

#### ENGINEERING CONTROLS

- » General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in specific circumstances.

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### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

#### APPEARANCE

White paste with little odour; not miscible with water.  
Unstable if heated.

#### PHYSICAL PROPERTIES

Molecular Weight: Not applicable.  
Melting Range (°C): Not available.  
Solubility in water (g/L): Partly Miscible  
pH (1% solution): Not applicable.  
Volatile Component (%vol): 1  
Relative Vapour Density (air=1): Not available.  
Lower Explosive Limit (%): Not available.  
Autoignition Temp (°C): Not available.  
State: Non Slump Paste

Boiling Range (°C): Not applicable.  
Specific Gravity (water=1): 1.04  
pH (as supplied): Not applicable  
Vapour Pressure (kPa): Not available.  
Evaporation Rate: Non Volatile  
Flash Point (°C): Not available.  
Upper Explosive Limit (%): Not available.  
Decomposition Temp (°C): Not Available  
Viscosity: Not Available

### Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

#### CONDITIONS CONTRIBUTING TO INSTABILITY

» - Presence of incompatible materials.  
- Product is considered stable.  
*For incompatible materials - refer to Section 7 - Handling and Storage.*

### Section 11 - TOXICOLOGICAL INFORMATION

#### POTENTIAL HEALTH EFFECTS

##### ACUTE HEALTH EFFECTS

» Not applicable.

##### CHRONIC HEALTH EFFECTS

» May cause SENSITISATION by skin contact.  
» May cause harm to the unborn child.  
» Possible risk of impaired fertility.  
» Repeated exposure may cause skin dryness and cracking.

#### TOXICITY AND IRRITATION

» unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

##### TOXICITY

Oral (Rat) LD50: >5000 mg/kg

Inhalation (Rat) LC50: >24 mg/kg/4h

» Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type.

For dibutyl phthalate (DBP):

In studies on rats, DBP is absorbed through the skin, although in vitro studies human skin has been found to be less permeable than rat skin to this compound. Studies in laboratory animals indicate that DBP is rapidly absorbed from the gastrointestinal tract, distributed primarily to the liver and kidneys of rats and excreted in urine as metabolites following oral or intravenous administration.

The material may produce peroxisome proliferation. Peroxisomes are single, membrane limited, cytoplasmic organelles that are found in the cells of animals, plants, fungi and protozoa.

Transitional Phthalate Esters: produced from alcohols with straight-chain carbon backbones of C4 to C6. This subcategory also includes a phthalate produced from benzyl alcohol as one ester group with the second ester composed of an alkyl group with a C5 carbon backbone and butyrate group.

##### DIBENZOYL PEROXIDE:

» unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

##### TOXICITY

Oral (rat) LD50: 7710 mg/kg

Inhalation (human) TCLo: 12 mg/m<sup>3</sup>

Subcutaneous (Rat) LD: 40 mg/kg (@ 50%)

Intraperitoneal (Mouse) LD50: 440 mg/kg

Intravenous (Rabbit) LD: 16 mg/kg

» Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type.

The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis.

For benzoyl peroxide:

The acute oral toxicity of benzoyl peroxide is very low: LD50 >2,000 mg/kg bw in mice, and 5,000 mg/kg bw in rats. No deaths occurred in male rats following inhalation of 24.3 mg/L.

The substance is classified by IARC as Group 3:

NOT classifiable as to its carcinogenicity to humans.

Evidence of carcinogenicity may be inadequate or limited in animal testing.

##### IRRITATION

##### IRRITATION

Eye (rabbit): 500 mg/24h - Mild

Skin effects (MAK): very weak

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Section 11 - TOXICOLOGICAL INFORMATION

### CARCINOGEN

dibenzoyl peroxide	International Agency for Research on Cancer (IARC) Carcinogens	Group	3
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## Section 12 - ECOLOGICAL INFORMATION

May cause long-term adverse effects in the environment.  
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
This material and its container must be disposed of as hazardous waste.

## Section 13 - DISPOSAL CONSIDERATIONS

- Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.
- DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Authority for disposal.

## Section 14 - TRANSPORTATION INFORMATION

» *Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in;*

(a) packagings;  
(b) IBCs; or

(c) any other receptacle not exceeding 500 kg(L).  
- Australian Special Provisions (SP AU01) - ADG Code 7th Ed.

Labels Required: ORGANIC PEROXIDE  
HAZCHEM: None (ADG6)

### Land Transport UNDG:

Class or division:	9	Subsidiary risk:	None
UN No.:	3082	UN packing group:	III
Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains dibutyl phthalate)			

### Air Transport IATA:

ICAO/IATA Class:	9	ICAO/IATA Subrisk:	None
UN/ID Number:	3082	Packing Group:	III
Special provisions:	A97		
Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. *(CONTAINS DIBUTYL PHTHALATE)			

### Maritime Transport IMDG:

IMDG Class:	9	IMDG Subrisk:	None
UN Number:	3082	Packing Group:	III
EMS Number:	F- A, S- F	Special provisions:	274 909 944
Limited Quantities:	5 L	Marine Pollutant:	Not Determined
Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(contains dibutyl phthalate)			

## Section 15 - REGULATORY INFORMATION

### POISONS SCHEDULE: S5

### REGULATIONS

Regulations for ingredients  
Laminex Freestyle Plexus - Catalyst Component (CAS: None):  
No regulations applicable

dibenzoyl peroxide (CAS: 94-36-0) is found on the following regulatory lists;

Australia - Victoria Occupational Health and Safety Regulations - Schedule 9: Materials at Major Hazard Facilities (And Their Threshold Quantity)

Table 2

- Australia Dangerous Goods Code (ADG Code) - Goods Too Dangerous To Be Transported
- Australia Dangerous Goods Code (ADG Code) - List of Currently Assigned Organic Peroxides in Packagings
- Australia Exposure Standards
- Australia Hazardous Substances
- Australia Inventory of Chemical Substances (AICS)
- Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Appendix E (Part 2)
- Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Appendix F (Part 3)

continued...

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Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Schedule 2  
Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Schedule 4  
Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Schedule 5  
International Agency for Research on Cancer (IARC) Carcinogens  
International Air Transport Association (IATA) Dangerous Goods Regulations  
International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List  
OECD Representative List of High Production Volume (HPV) Chemicals

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### Section 16 - OTHER INFORMATION

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» Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

[www.chemwatch.net/references](http://www.chemwatch.net/references).

» The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

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*This is the end of the MSDS.*