

**LAMINEX FREESTYLE PLEXUS - RESIN COMPONENT**

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

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

**PRODUCT NAME**

LAMINEX FREESTYLE PLEXUS - RESIN COMPONENT

**PROPER SHIPPING NAME**

ADHESIVES

**PRODUCT USE**

» Requires that the two parts be mixed by hand or mixer before use, in accordance with manufacturers directions. Mix only as much as is required. Do not return the mixed material to the original containers.  
The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing.

Before starting consider control of exposure by mechanical ventilation.  
Base or part A of two part acrylic adhesive. When combined with the Freestyle catalyst is used to bond Freestyle solid surface sheets together

**SUPPLIER**

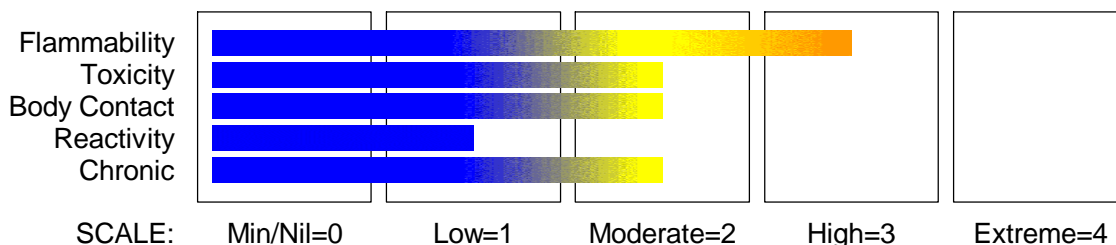
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**Section 2 - HAZARDS IDENTIFICATION**

**STATEMENT OF HAZARDOUS NATURE**

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

**CHEMWATCH HAZARD RATINGS**



**POISONS SCHEDULE**

None

**RISK**

Risk Codes  
R11  
R36/37/38  
R43  
R67

Risk Phrases  
» Highly flammable.  
» Irritating to eyes respiratory system and skin.  
» May cause SENSITISATION by skin contact.  
» Vapours may cause drowsiness and dizziness.

**SAFETY**

Safety Codes  
S16

Safety Phrases  
» Keep away from sources of ignition. No smoking.

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Section 2 - HAZARDS IDENTIFICATION

S23	» Do not breathe gas/fumes/vapour/spray.
S24	» Avoid contact with skin.
S39	» Wear eye/face protection.
S51	» Use only in well ventilated areas.
S09	» Keep container in a well ventilated place.
S29	» Do not empty into drains.
S401	» To clean the floor and all objects contaminated by this material use water and detergent.
S07	» Keep container tightly closed.
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	%
methyl methacrylate	80-62-6	10-60
no other ingredient information supplied		

## Section 4 - FIRST AID MEASURES

### SWALLOWED

- » - Immediately give a glass of water.
- First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

### 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.
- Lay patient down. Keep warm and rested.

### 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.
  - May be violently or explosively reactive.
- When any large container (including road and rail tankers) is involved in a fire, consider evacuation by 500 metres in all directions.

### FIRE/EXPLOSION HAZARD

- » - Liquid and vapour are highly flammable.
  - Severe fire hazard when exposed to heat, flame and/or oxidisers.
- Combustion products include: carbon dioxide (CO<sub>2</sub>), other pyrolysis products typical of burning organic material.

### FIRE INCOMPATIBILITY

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

### HAZCHEM: 3[Y]E

### Personal Protective Equipment

Gas tight chemical resistant suit.

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## Section 6 - ACCIDENTAL RELEASE MEASURES

### EMERGENCY PROCEDURES

#### MINOR SPILLS

- » - Remove all ignition sources.
- Clean up all spills immediately.

#### MAJOR SPILLS

- » Restrict access to area.
- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.

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

## Section 7 - HANDLING AND STORAGE

### PROCEDURE FOR HANDLING

- » - DO NOT allow clothing wet with material to stay in contact with skin.
  - Avoid all personal contact, including inhalation.
  - Wear protective clothing when risk of exposure occurs.
- Clothing wet with flammable methyl methacrylate material can be a fire hazard and should be removed promptly.

### SUITABLE CONTAINER

- » - Packing as supplied by manufacturer.
- Plastic containers may only be used if approved for flammable liquid.
- For low viscosity materials (i) : Drums and jerry cans must be of the non-removable head type. (ii) : Where a can is to be used as an inner package, the can must have a screwed enclosure.
- For materials with a viscosity of at least 2680 cSt. (23 deg. C).

### STORAGE INCOMPATIBILITY

- » - Contamination with polymerisation catalysts - peroxides, persulfates, oxidising agents - also strong acids, strong alkalies, will cause polymerisation with exotherm - generation of heat.
- Polymerisation of large quantities may be violent - even explosive.

### STORAGE REQUIREMENTS

- » - Protect from heat. Keep cool.
- Store in original containers in approved flame-proof area.
- No smoking, naked lights, heat or ignition sources.

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE CONTROLS

Source	Material	TWA ppm	TWA mg/m <sup>3</sup>	STEL ppm	STEL mg/m <sup>3</sup>
Australia Exposure Standards	methyl methacrylate (Methyl methacrylate)	50	208	100	416

### PERSONAL PROTECTION

#### RESPIRATOR

Type A 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.

#### OTHER

- » - Overalls.
- PVC Apron.

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## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### ENGINEERING CONTROLS

» For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should be explosion-resistant.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE

Clear, viscous, highly flammable liquid with a pungent acrylic odour; not miscible with water.

### PHYSICAL PROPERTIES

Liquid.  
Does not mix with water.  
Floats on water.

Molecular Weight: Not Applicable  
Melting Range (°C): Not Available  
Solubility in water (g/L): Immiscible  
pH (1% solution): Not Applicable  
Volatile Component (%vol): 40- 60  
Relative Vapour Density (air=1): >1  
Lower Explosive Limit (%): 1.8  
Autoignition Temp (°C): Not Available  
State: Liquid

Boiling Range (°C): 101 approx  
Specific Gravity (water=1): 0.92  
pH (as supplied): Not Applicable  
Vapour Pressure (kPa): 4.6 @ 20 deg.C  
Evaporation Rate: Not Available  
Flash Point (°C): 13  
Upper Explosive Limit (%): 8.5  
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

» Irritating to eyes, respiratory system and skin.  
» Vapours may cause dizziness or suffocation.  
» Vapours may cause drowsiness and dizziness.

#### CHRONIC HEALTH EFFECTS

» May cause SENSITISATION by skin contact.

### TOXICITY AND IRRITATION

» Not available. Refer to individual constituents.

#### METHYL METHACRYLATE:

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

#### TOXICITY

Oral (rat) LD50: 7872 mg/kg  
Inhalation (human) TClO: 125 ppm  
Dermal (rabbit) LD50: >5000 mg/kg  
Inhalation (rat) LC50: 3750 ppm \*  
Dermal (rabbit) LD50: 35500 mg/kg \*

#### IRRITATION

Skin (rabbit): 10000 mg/kg (open)  
Eye (rabbit): 150 mg

» 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. Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Where no "official" classification for acrylates and methacrylates exists, there has been cautious attempts to create classifications in the absence of contrary evidence. For example Monalkyl or monoarylestere of acrylic acids should be classified as R36/37/38 and R51/53 Monoalkyl or monoaryl esters of methacrylic acid should be classified as R36/37/38. 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.

Based on the available oncogenicity data and without a better understanding of the carcinogenic mechanism the Health and Environmental Review Division (HERD), Office of Toxic Substances (OTS), of the US EPA previously concluded that all chemicals that contain the acrylate or methacrylate moiety (CH<sub>2</sub>=CHCOO or CH<sub>2</sub>=C(CH<sub>3</sub>)COO) should be considered to be a carcinogenic hazard unless shown otherwise by adequate testing.

This position has now been revised and acrylates and methacrylates are no longer de facto carcinogens.

Inhalation (human) TClO: 60 mg/m<sup>3</sup>(15 ppm) [\* Manuf. Rohm & Haas]

### CARCINOGEN

methyl methacrylate

International Agency for Research on Cancer  
(IARC) Carcinogens

Group

3

continued...

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Section 11 - TOXICOLOGICAL INFORMATION

## REPROTOXIN

methyl methacrylate

ILO Chemicals in the electronics industry  
that have toxic effects on reproduction

Reduced fertility or  
sterility

## Section 12 - ECOLOGICAL INFORMATION

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.

## Section 14 - TRANSPORTATION INFORMATION

Labels Required: FLAMMABLE LIQUID  
HAZCHEM: 3[Y]E (ADG6)

### Land Transport UNDG:

Class or division:	3	Subsidiary risk:	None
UN No.:	1133	UN packing group:	II

Shipping Name: ADHESIVES containing flammable liquid

### Air Transport IATA:

ICAO/IATA Class:	3	ICAO/IATA Subrisk:	None
UN/ID Number:	1133	Packing Group:	II

Special provisions: A3  
Shipping Name: ADHESIVES CONTAINING FLAMMABLE LIQUID

### Maritime Transport IMDG:

IMDG Class:	3	IMDG Subrisk:	None
UN Number:	1133	Packing Group:	II
EMS Number:	F- E, S- D	Special provisions:	944
Limited Quantities:	5 L	Marine Pollutant:	Not Determined

Shipping Name: ADHESIVES containing flammable liquid

## Section 15 - REGULATORY INFORMATION

POISONS SCHEDULE: None

### REGULATIONS

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

methyl methacrylate (CAS: 80-62-6) is found on the following regulatory lists;

- Australia Dangerous Goods Code (ADG Code) - Goods Too Dangerous To Be Transported
- Australia Exposure Standards
- Australia Hazardous Substances
- Australia High Volume Industrial Chemical List (HVICL)
- Australia Inventory of Chemical Substances (AICS)
- Australia National Pollutant Inventory
- Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Appendix C
- Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Appendix F (Part 3)
- Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Schedule 6
- IMO IBC Code Chapter 17: Summary of minimum requirements
- IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk
- 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

## Section 16 - OTHER INFORMATION

» 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).

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Section 16 - OTHER INFORMATION

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» 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.*