



# NATIONAL ADHESIVE DISTRIBUTORS (PTY) LTD

Reg No.: 2021/976762/07 VAT No.: 4370194633

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## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT IDENTIFICATION

PRODUCT NAME: **GLUEDEVIL GDSA121 Structural Adhesive**

PRODUCT: Adhesive

### 2. COMPOSITION / INFORMATION ON INGREDIENTS:

<u>Component</u>	<u>EC Number</u>	<u>Concentration (%)</u>	<u>EC Symbol</u> <u>Risk Phrases</u>
Methyl Methacrylate	201-297-1	40 – 60	F:R11 Xi:R37/38 R43
2-Hydroxyethyl Methacrylate	212-782-2	5 – 15	Xi:R36/38 R43
2, 3-Epoxypropyl Methacrylate	203-441-9	1 – 5	Xn:R20/21/22 Xi:R36/38 R43
Acrylonitrile-Butadiene Copolymer		10 – 20	
Cumene Hydroperoxide	201-254-7	1 – 5	O:R7 T:R23 Xn:21/22 R48/20/22 C:R34 N:R51/53

### 3. HAZARDS IDENTIFICATION:

Emergency Overview : Harmful, Irritant, Sensitize, Flammable

Potential Health Effects:

Inhalation : Vapor may be irritant to the respiratory tract

Skin contact : Corrosive, repeated and/or prolonged contact may cause skin sensitization

Eye contact : Corrosive, causes eye burns

Ingestion : Corrosive to mouth, oesophagus and stomach

Physico-Chemical: May readily catch fire after brief contact with source of ignition

Environmental : Not available



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#### 4. FIRST –AID MEASURES:

- Inhalation : Give artificial respiration if not breathing. Get immediate medical attention.  
If medical attention is not required, remove to uncontaminated area.
- Skin contact : Flush exposed areas thoroughly with soap and water until all chemical is removed.  
Remove contaminated clothing and launder before re-use. Unless the itchiness or inflammation has cleared, get medical attention.
- Eye contact : Wash by a large quantity of water for more than 15 min. and get medical attention immediately.
- Ingestion : Wash thoroughly with water, then drink a large quantity of water and vomit it. Get medical attention.

#### 5. FIRE – FIGHTING MEASURES:

- Extinguishing Media : Regular dry chemical, carbon dioxide, water, regular foam
- Large Fires : Fire fighter should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fires.
- Fire & Explosion Hazards : Combustion may release noxious or toxic vapors.
- Hazardous Combustion : Carbon monoxides, carbon dioxide, unknown hydrocarbons
- Products
- Flash Point : 10 – 20 °C (Setaflash Closed Tester)

#### 6. ACCIDENTAL RELEASE MEASURES:

- Occupational Release : Avoid heat, flames, sparks and other sources of ignition. Stop leak if possible without personal risk. Reduce vapors with ventilation. Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.



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### 7. HANDLING AND STORAGE:

Handling / Storage : Store in a cool, dry and dark place. Keep away from heat, sources of ignition and incompatible substances.

Sensitive to Static : Yes

Electricity

Sensitive to Mechanical : No

Impact

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Exposure Limits : Methyl methacrylate : ACGIH – 100ppm (TLV-TWA), 125ppm (TVL-STEL)

#### Occupational Exposure Controls:

Ventilation : Provide local exhaust ventilation system. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits

Eye Protection : Wear splash resistant safety goggles. Provide emergency eye wash fountain & quick drench shower in the immediate work area.

Clothing : Wear appropriate chemical resistant clothing.

Gloves : Wear appropriate chemical resistant gloves.

Respiration : Wear any chemical cartridge respirator with organic vapor cartridge(s).

### 9. PHYSICAL AND CHEMICAL PROPERTIES:

Pure substance or Preparation : Preparation

Physical State : Liquid

Colour : Green – Base ; Pink - Activator

Odour : Acrylic Odour



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Boiling Point : 101 °C  
Relative Density : 1.0 – 1.1  
Water Solubility : Insoluble  
Volatility : Yes  
Coefficient of Water/Oil Distribution: Not Available

### 10. STABILITY & REACTIVITY:

Reactivity : Stable at normal temperatures & pressures  
Conditions to Avoid : Avoid heat, flames, sparks & other sources of ignition  
Incompatibilities : Keep out of basic substances & reducing agents

### Hazardous Decomposition

Thermal Decompositions Products : Carbon monoxides, carbon dioxide, unknown hydrocarbons

### 11. TOXICOLOGICAL INFORMATION:

#### Health Effects:

##### Inhalation:

- Acute exposure: Methyl methacrylate : may cause irritation of the respiratory tract
- Chronic exposure: Methyl methacrylate : no data available

##### Skin Contact:

- Acute exposure: Methyl methacrylate : may cause irritation & bonding of the skin. Rarely may cause thermal burns.
- Chronic exposure: Methyl methacrylate : no data available



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#### Eye Contact:

- Acute exposure: Methyl methacrylate : may cause irritation, lacrimation, double vision & tissue damage usually with no permanent effects. Direct contact may seal eyelids shut. Separation may cause mechanical damage to cornea.
- Chronic exposure: Methyl methacrylate : no data available

#### Ingestion:

- Acute exposure : Methyl methacrylate : contact may cause bonding of the mouth & lips.
- Chronic exposure: Methyl methacrylate : no data available

### 12. ECOLOGICAL INFORMATION:

Potential Effect on Environment : MMA has estimate of 48-96 hours median tolerance limit,  
 Goldfish : 426-277mg/L : 96 hours LC50'  
 Bluegill Sunfish 91mg/L: 96 hours LC50'  
 Guppy 91mg/L

### 13. DISPOSAL CONSIDERATIONS:

Dispose in accordance with all applicable regulations.

### 14. TRANSPORT INFORMATION:

#### Air Transport IATA/ICAO:

Proper Shipping Name : Flammable Liquid  
 Technical Name : Adhesive  
 Hazard Class : 3



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UN Number : 1133

Packing Group : II

### Maritime Transport IMDG:

Proper Shipping Name : Flammable Liquid

Technical Name : Adhesive

Hazard Class : 3

UN Number : 1133

Packing Group : II

### 15. REGULATORY INFORMATION:

#### Labelling According to EEC Directives:

Hazard Symbol : Xn – Harmful, F – Flammable

Risk Phrases : R11 – highly flammable

R20 – harmful by inhalation

R37/38 – irritating to respiratory system & skin

R41 – Risk of serious damage to eyes

R43 – may cause sensitization by skin contact

Safety Phrases : S9 – keep container in a well ventilated place

S16 – keep away from sources of ignition – no smoking

S26 – in case of contact with eyes, rinse immediately with plenty of water & seek medical advice

S33 – take precautionary measures against static discharges

S36/37/39 – wear suitable protective clothing, gloves & eye/face protection



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### 16. OTHER INFORMATION:

FULL TEXT OF RISK PHRASES FOR INGREDIENTS INDICATED IN SECTION 2

Methyl Methacrylate	: R11 – highly flammable R37/38 – irritating to respiratory system & skin R43 – may cause sensitization by skin contact
2-Hydroxyethyl Methacrylate	: R36/38 – irritating to eyes & skin R43 – may cause sensitization by skin contact
2,3-Epoxypropyl Methacrylate	: R20/21/22 – harmful by inhalation, in contact with skin & if swallowed R36/38 – irritating to eyes & skin R43 – may cause sensitization by skin contact
Cumene Hydroperoxide	: R7 – may cause fire R23 – toxic by inhalation R21/22 – harmful in contact with skin & if swallowed R34 – causes burns R48/20/22 – harmful : danger of serious damage to health by prolonged exposure through inhalation & if swallowed. R51/53 – toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

All the information of this Material Safety Data Sheet is provided on the basis in good faith, and is believed to be trustworthy but is for reference only. National Adhesive Distributors (Pty) Ltd cannot accept any liability for the results whatsoever arising from the use of National Adhesive Distributors (Pty) Ltd products due that the utilization of these products is simply out of our control. The users are responsible for selecting the suitability of the products and methods of use.

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