

**Section 1. Identification.**

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| Product identifier                       | Grasp PUA Liquid - PUA005                                |
| Recommended use and restrictions on use. | Single pack waterproof adhesive.                         |
| Details of manufacturer                  | Bondtech<br>143 Allingham St<br>Golden Square, VIC, 3444 |
| Emergency Phone Number                   | Poisons Information Line 13 11 26                        |

**Section 2. Hazard(s) Identification.**

Classification of the hazardous chemical **DANGER**  
 Acute toxicity – category 2 ; Eye irritation – category 2A;  
 Skin irritation – category 2  
 Specific target organ toxicity (repeated exposure) – category 1  
 Respiratory sensitisation – category 1; Skin sensitisation – category 1  
 Carcinogenicity – category 2  
 Specific target organ toxicity (single exposure) – category 3



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| Fatal if inhaled§.<br>Causes severe eye irritation. Causes skin irritation.<br>May cause respiratory irritation§.<br>Causes damage to organs through prolonged or repeated exposure<br>May cause allergy or asthma symptoms or breathing difficulties if inhaled§<br>May cause an allergic skin reaction<br>Suspected of causing cancer.   | Do not breath vapours.<br>Use only in a well-ventilated area or outdoors.<br>In case of inadequate ventilation wear respiratory protection.<br>Wash thoroughly after handling.<br>Wear protective gloves and eye protection/ face protection.<br>Do not eat, drink or smoke when using this product |
| <p>IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.<br/>         Immediately call a POISON CENTRE or doctor/physician<br/>         IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.<br/>         If ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.<br/>         Take off contaminated clothing and wash before reuse. Call a POISON CENTRE or doctor if you feel unwell.</p> <p>§At room temperature this product produces very little vapour. Thus, provided it is not heated nor sprayed, the above hazard statements and the inhalation risk in particular, which is required by law, overstate the dangers.</p> |   |

**Section 3. Composition and Information on Ingredients.**

| Name  | Cas No.    | Proportion |
|---|------------|------------|
| Isocyanates, reaction product of polyol with methylenephenyl diisocyanate | 53862-89-8 | 30-60%     |
| Diphenylmethanediisocyanate, isomers and homologues                       | 9016-87-9  | 30-60%     |
| 4,4'-methylenediphenyl diisocyanate                                       | 101-68-8   | 10-30%     |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

**Section 4. First Aid Measures.**

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| Inhalation          | <b>IF INHALED.</b> Move to fresh air. If rapid recovery does not occur, seek medical attention.  |
| Ingestion           | <b>IF SWALLOWED:</b> Drink water. If a quantity is ingested it may cause gastrointestinal blockage. Call a POISON CENTRE or doctor/physician if you feel unwell.   |
| Eye Contact         | <b>IF IN EYES:</b> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice/attention.   |
| Skin Contact        | <b>IF ON SKIN:</b> Wash with plenty of soap and water. Citrus based hand cleaner with pumice is useful. (do NOT use solvent to clean skin). If skin irritation occurs: Seek medical advice/attention. Take off contaminated clothing and wash before reuse.  |
| Inhalation Symptoms | At room temperature, vapours are minimal due to low volatility. Symptoms are unlikely unless operations which generate mist or vapours are occurring such as spraying, heating or pumping. Inhalation may cause pulmonary edema (fluid in the lungs). Effects may be delayed. Has caused an allergic response. Asthma like symptoms may include coughing, difficult breathing and tightness in the chest. Occasionally breathing difficulties may be |

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|                   | life threatening.   |
| Note to Physician | No particular measures are known – treat according to symptoms. Effects may be delayed. |

### Section 5. Fire Fighting Measures.

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| Extinguishing Media | CO <sub>2</sub> , extinguishing powder or water fog or fine spray. Fight larger fires with water fog or fine spray or alcohol-resistant foam |
| Specific Hazards    | Formation of toxic gases is possible during heating or in case of fire.  |
| Fire Fighters       | Put on breathing apparatus if material is involved in fire.  |
| Hazchem Code        | 3Z   |

### Section 6. Accidental Release Measures.

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| Small Spills | Absorb spillage with sand, earth, vermiculite or any suitable absorbent material. Allow material to dry (cure) then dispose as normal solid waste.   |
| Large Spills | Avoid breathing vapours. Slippery when spilt. Wear protective equipment to prevent skin, and eye contact. Cover spill with wet sand and leave to react for 10 minutes. Scrape up excess material before complete cure and put into waste containers. Do not make waste containers pressure tight. Cured material can only be removed by cutting or abrasion. |

### Section 7. Handling, Storage and Safe Use.

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| Handling                     | Use with adequate ventilation.<br>Vapour is heavier than air.<br>Use suitable protective equipment.<br>Avoid contact with eyes, skin and clothing.<br>Eating, drinking and smoking in work areas is prohibited.<br>Certain operations, such as heating, spraying, venting and pumping may generate vapour or mist sufficient to cause respiratory irritation and effects. |
| Storage                      | Keep dry, reacts with moisture. Store only in original containers. Store away from food stuffs. Keep container tightly sealed.  |
| Suitable Packaging Materials | High Density Polyethylene   |

### Section 8. Exposure Controls.

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| Exposure Limits      | No value assigned to this specific material by the National Occupational Health and Safety Commission. However, Exposure Standards for constituents are as follows:-<br>Isocyanates, all (as –NCO) 8hr TWA 0.02mg/m <sup>3</sup> 15min STEL = 0.07mg/m <sup>3</sup> , Sen   |
| Engineering Controls | Use only with adequate ventilation.   |
| Personal Protection  | Safety glasses with side shields<br>Organic Vapour respirator in enclosed spaces or where mist is being generated.<br>Rubber Gloves. Neoprene, nitrile or butyl rubber may give longest time to breakthrough.<br>Clothing which covers arms, legs and torso.<br>In case of inadequate ventilation, wear suitable respiratory equipment<br><b>Advice on personal protection equipment is applicable for high exposure levels.</b><br><b>Select proper personal protection based on a risk assessment of the actual exposure situation.</b> |

### Section 9. Physical and Chemical properties.

|  |                                   |                      |
|--|-----------------------------------|----------------------|
|  | Appearance                        | Viscous Brown Liquid |
|  | Odour                             | Faint Odour          |
|  | Melting Point/Freezing Point (°C) | < -10°C              |
|  | Boiling Point and boiling         | > 300 °C decomposes  |

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|  | range (°C)                                   |  |
|  | Flash Point (°C)                             | >200 °C                                |
|  | Flammability                                 | Combustable                            |
|  | Upper/lower flammability or explosive limits | Not explosive                          |
|  | Relative Density                             | 1.15                                   |
|  | Vapour pressure (20°C)                       | < 0.000003 mmHg @ 25 °C                |
|  | Rel. Vapour Density (air=1)                  | > 1                                    |
|  | Solubility                                   | Insoluble in hot or cold water. Reacts |
|  | Partition coefficient n-octanol/water        | Reacts with water.                     |
|  | Viscosity                                    | 3000 mPa.sec                           |
|  | Volatile organic compounds content           | 0 g/L                                  |

### Section 10. Stability and Reactivity.

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| Stability              | Stable at room temperature. Reaction with moisture produces CO <sub>2</sub> gas. Exothermic reaction occurs with great heat generation with materials containing active hydrogen. The reaction can be violent at high temperatures. |
| Conditions to Avoid    | .Elevated temperatures, moisture and humidity   |
| Incompatible Materials | Water, alcohols, ammonia, amines, bases and acids   |

### Section 11. Toxicological Information.

|                   |   |                                 |
|-------------------|---|---------------------------------|
| Acute Effects     | <b>Mixture</b>  |                                 |
|                   | Ingestion   | LD50 >10000mg/kg Rat            |
|                   | Eye   | Irritant                        |
|                   | Dermal  | LD50 >9400mg/kg Irritant Rabbit |
|                   | Inhalation, Dusts & Mists   | LC50 = 0.49mg/L Aerosol, Rat    |
| Long term Effects | If skin irritation or rash occurs: Get medical advice/attention.<br>Has caused allergic skin reactions in humans.   |                                 |
|                   | At room temperature, vapours are minimal due to very low volatility. Certain operations may generate vapour or mist sufficient to cause respiratory irritation and adverse effects. May cause sensitization by inhalation.<br>May cause allergic respiratory response, including asthma like symptoms.<br>Respiratory effects could be delayed. |                                 |

### Section 12. Ecological Information.

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| Ecotoxicity                   | No known significant effects or critical hazards.  |
| Persistence and Degradability | In the environment, material reacts with water to form an insoluble compound which appears to be stable. |
| Bioaccumulative Potential     | Does not bioaccumulate   |
| Mobility in Soil              | Limited by its reaction with water forming an insoluble compound.  |
| Other Adverse Effects         | None known.  |
| Acute Toxicity to fish        | Lc50 > 1000mg/l (Zebra fish, Brachydanio rerio) 96 hrs   |
| Toxicity to Daphnia           | EC50 > 1000mg/l (24 hrs)   |
| Acute Toxicity to bacteria    | EC50 > 100mg/l (3 hours)   |

**Section 13. Disposal Considerations.**

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|  | Dispose of all empty containers as per State and Council Regulations. Do not burn empty containers or product. Do not bury product or empty containers. Do not dispose of near waterways, vegetation and tree roots. Excess product can be mixed with wet sand and leave to react for 10 minutes. Scrape up excess material before complete cure and put into waste containers. Do not make waste containers pressure tight. The resultant solid material can be disposed of as solid waste. |
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**Section 14. Transport Information.**

|   |   |
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| UN. No.   | Not allocated                           |
| Proper Shipping Name  | Not applicable                          |
| Class   | Not classified as a dangerous substance |
| Subsidiary Risk   | Nil                                     |
| Packaging Group   | Not applicable                          |
| Hazchem Code  | 3Z                                      |
| EPG   | Not applicable                          |
| Segregation   | Not applicable                          |
| For road, marine and air transport this product is not classified as dangerous goods within the context of National and International Transport Regulation. |   |

**Section 15. Regulatory Information.**

Poisons Schedule 6 "Poison/Keep Out of Reach of Children//Read Safety Directions"

**Section 16. Other.**

| Date        | Action                                |
|-------------|---------------------------------------|
| 11 Dec 2013 | New Issue                             |
| 18 Nov 2016 | Incorporate Purbond F20 and Fx        |
| 5 Dec 2016  | SUSMP Schedule 6 Info Added           |
|             | Reclassify per HCIS reclassification. |

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|  | Preparation of Safety Data Sheets for Hazardous Chemicals. Code of Practice 2011<br>Queensland Work Health and Safety Regulation 2011<br>ADG7 October 2011 Section 2.9.3.3<br>GHS 2009 3rd Edition.<br>GHS 2013 5 <sup>th</sup> Edition Health effects 03e_part3<br>GHS 2013 5 <sup>th</sup> Edition Environmental Hazards 04e_part4 |
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**Abbreviations**

|        |  |                   |  |
|--------|--|-------------------|--|
| ADG7   | Australian Code for the Transport of Dangerous goods by Road & Rail, 7 <sup>th</sup> Edition | LD50              | Lethal dose for 50% of the test population |
| C.A.S. | Chemical Abstracts Service Number  | LOEC              | Lowest Observable Effective Concentration  |
| EC50   | Half Maximal Effective Concentration   | mg                | milligram                                  |
| EPG    | Emergency procedure guide  | Mg/m <sup>3</sup> | Milligram per cubic metre                  |
| ErC50  | Means EC50 in terms of reduction of growth rate  | N.O.S.            | Not Otherwise Specified                    |
| GHS    | Globally Harmonized System of Classification and Labelling of Chemicals                      | ppm               | Parts per million                          |
| kg     | Kilogram   | PVC               | Polyvinyl Chloride                         |
| L      | Litre  | Sen               | Sensitizer                                 |
| LC50   | Lethal concentration for 50% of the test population  | STEL              | Short Term Exposure Limit                  |
|        |  | TWA               | Time Weighted Average                      |