



MATERIAL SAFETY DATA SHEET

Page :1

Revised edition no : 01

P-5509 WOOD GLUE

Effective Date: 10-7-2014

1 Identification of the Product and the company

Chemical Name : Wood Glue
Type of product chemical family : Water based PVA Glue
Use : Gluing
Producer : TLC-KOYA CHEMICALS MANUFACTURING SDN BHD
No.22 & 23, Jalan Maju 1,
Cemerlang Industrial Estate,
81800 Ulu Tiram, Johor, Malaysia.
Tel: 607-8675798 Fax: 607-8675799
Website: www.koyachemicals.com Email: admin@koyachemicals.com

Emergency phone nr : See producer

2 Hazard Identification

By Skin Contact : No irritation is likely after contact but may be irritating after Prolong contact.

By Eye Contact : Mild to moderate irritation. Causing pain and general inflammation, but essentially no corneal injury.

By Inhalation : When concentrated solutions of this product are swallowed, it can cause slight irritation to the mouth, esophagus and stomach.

By Ingestion : Amount ingested incidental to industrial handling are not likely to cause injury, however, ingestion of large amounts may cause injury.

3 Composition / Information on Ingredients

No hazardous ingredient in this product

Active Ingredient :

4 First Aid Measures

Emergency and First Aid Procedures:-

For Eye Contact : Flush with cool running water, lifting the upper and lower eyelids occasionally until discomfort is relieved.

For Skin Contact : Not expected to present a significant skin hazard under anticipated condition of normal use.

For Ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

For Inhalation : Treatment base on judgment of physician in response to reaction of patient.

5 Fire-Fighting Measures

Flash Point (Tag Closed Tester) : None

Extinguishing Media : These products will not burn or support combustion.

Special Fire Fighting Procedures : Self-contained breathing apparatus are recommended for fire fighters.

Unusual Fire and Explosion Hazards : None.

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6 Accidental Release measures

- Personal protection : - Wear PVC-gloves and goggles to contain spillage.
Avoid repeated skin contact.
- Environment precautions : - Prevent the product contaminating soil and groundwater. Prevent the product entering sewers and waterways.
Cfr. Section 12.
- Cleaning / recovery : - Large spillages : contain and pump into containers.
- Small spillages : absorb on sand, earth...and collect into containers for disposal. Disposal should always comply with local, national or EEC regulations. Cfr. Section 13.

7 Handling and Storage

- Handling : Good industrial and personal hygiene practice should be followed. No eating and drinking in the workplace. Ensure adequate ventilation.
- Storage : Storage temperature : $>+4^{\circ}\text{C}$ - $<35^{\circ}\text{C}$
Protect from frost and direct sunlight.
Drums and bottles : material is plastic or steel.
Bulk tanks : stainless steel, plastic coated materials...Clean bulk tanks periodically to prevent accumulation of bacteria.
- Specific use : Use the best available methods of handling our Products where by the employees enjoy maximum safety and where by the environment is minimally affected.

8 Exposure controls / personal protection

- Exposure limit values : No danger in normal ambient conditions.
There are no specific limiting values for professional exposure.
There are no biological limiting value.
User should determine the conditions for safe use of the product. Cfr. Section 7 "Handling and Storage".
- Exposure controls:
- Occupational exposure controls : Respiratory protection : not applicable
Hand protection : waterproof PVC-gloves (CE)
Eye protection : goggles or safety glasses (CE)
Skin protection : N/A
Avoid repeated skin contact
 - Environmental exposure controls : The Product must not be discharge directly into drains or waterways without treatment.



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Page :3

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9 Physical and chemical properties

| | |
|----------------------------|---------------------------------|
| Boiling point (°F) | : 220 |
| Vapor Pressure (mm hg) | : N/A |
| Vapor Density (Air=1) | : >1 |
| PH of concentrate | : 5.5+/-0.5 |
| Appearance and odor | : Milky Compound and Mild odour |
| Solubility in water | : Indefinite in water |
| Specific Gravity (H2O=1) | : 1.05 |
| Percent Volatile by Weight | : 5 |
| Evaporation Rate (Water=1) | : 5 |

10 Stability and reactivity

| | |
|----------------------------------|---|
| Conditions to avoid | : Stable under the recommended storage conditions. Cfr. Section 7 "Storage". Bacterial degradation can occur if the Product is stores for an unusually long period or is stored under unsuitable conditions. |
| Materials to avoid | : N/D |
| Hazardous decomposition products | : N/D |

11 Toxicological information

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|------------|--|
| On product | : Low toxicity is indicated by available data. Under normal industrial conditions, there is no indication that the Product can be considered as a health risk. Skin contact should be avoided to prevent possible long-term or short-term sensitisation. |
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12 Ecological information

| | |
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| Ecotoxicity | : The Product is indefinite with water and as such could cover considerable distances if spilled into waterways. Even a small spillage will whiten the appearance of water. Water for sewage treatment, that has been contaminated. Will small quantities of the Product, will not affect the biomass. High concentrations may be harmful to fish and micro organisms. |
| Mobility | : Not established. |
| Persistence and degradability | : There is only a slow environmental degradation of the Product. |
| Bioaccumulative potential | : There is seemingly no tendency for bioaccumulation. |
| Other adverse effects | : Unknow |



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13 Disposal Considerations

- The following advice only applies to the product as supplied
- Combination with other materials may well indicate another route of disposal. If in doubt, contact local TLV-KOYA CHEMICALS MANUFACTURING SDN BHD or local authorities.
- Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor.
- Care should in any case be taken to ensure compliance with national and local regulations.
- This product is not suitable for disposal by either landfill or via municipal sewers, drains, and natural streams, rivers or seas, they will effect the relationship between living things, plants and their environment.

14 Transport information

General information : This Product is not regulated for road/rail & sea transport.

15 Regulatory Information

Classification and labeling : Classification / symbol - not regulated
Governing directive : Occupational Safety and Health (Classification, Packing and Labeling of Hazardous Chemicals) Regulations 1997.
Safety advice : May contain information in excess of requirements under applicable laws.
R22 Harmful if swallowed
S24 Avoid contact with skin
S25 Avoid contact with eyes

16 Other Information

Further information : None
Print date : 10-7-2014

N/A - Not Applicable N/D - Not Determined

All recommendations for the use of our products, whether given by us in writing, orally, or to be implied from data or test results obtained by us, are based on the current state of our knowledge at the time such recommendations are made. When additional information is obtained, these recommendations may be updated. They may also be influenced by circumstances outside our control. Notwithstanding such recommendations, the user is responsible to determine that the product as supplied by us, is suitable for the process or purpose he intends to use it. The user of the product is solely for compliance with all laws and regulation applying to the use of the product. Since we cannot control the application, use or processing of the products, we do not accept responsibility therefore. The user shall ensure that the intended use of the products will not infringe in any party's intellectual property rights.