



MATERIAL SAFETY DATA SHEET

Page :1

Revised edition no : 01

P-808/50 BONDING AGENT

Effective Date: 16-7-2014

1 Identification of the Product and the company

Chemical Name : Bonding Agent
Type of product chemical family : N/A
Use : Cement modifier
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

Health Hazard - mild respiratory tract irritating
- This product can be considered as no-toxic, non-harmful, non-irritating, non-corrosive and non-oxidising.

3 Composition / Information on Ingredients

Health hazardous : Harmful if swallowed. Mild Irritating to skin. Risk of serious damage to eyes. Harmful: danger of serious damage to health, by prolonged exposure and if swallowed.

4 First Aid Measures

Inhalation : Remove to fresh air. Give artificial respiration if not breathing. Oxygen may be given if necessary. If sign and symptoms of toxicity persist, call a physician.
Skin Contact : Flush with large amounts of water; use soap if available. Remove grossly contaminated clothing, including shoes and laundry before reuse.
Eye Contact : Flush eyes with large amounts of water until irritation subsides, if irritation persists, get medical attention.
Ingestion : If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

5 Fire-Fighting Measures

Fire Hazard - Product is water based and in wet form, its fire hazard is low. The dried product is combustible, decomposition products can be toxic.
Extinguishing media - Water, powder, CO₂, sand...all extinguishing media are suitable. Protective clothing and self-contained breathing equipment should be available for firemen.
To prevent environmental damage, if possible collect water used to extinguish the fire in containers.

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



MATERIAL SAFETY DATA SHEET

Page :2

Revised edition no : 01

P-808/50 BONDING AGENT

Effective Date: 16-7-2014

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 : between +5 and +40°C.
Protect from frost and direct sunlight.
Drums and bottles : material is plastic or steel.
Bulk tanks : stainless steel, aluminium, plastic coated materials... Clean bulk tanks periodically to prevent accumulation of bacteria.
- Specific use : Use the best available methods of handling our Products whereby the employees enjoy maximum safety and whereby 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 values.
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 : not applicable.
Avoid repeated skin contact.
 - Environmental exposure controls : The product must not be discharge directly into drains or waterways without treatment.

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



MATERIAL SAFETY DATA SHEET

Page :3

Revised edition no : 01

P-808/50 BONDING AGENT

Effective Date: 16-7-2014

9 Physical and chemical properties

Physical state	: Emulsion
Colour	: Milky white
Odour	: Characteristics
pH Value	: 9+/-0.5
Density [kg/l @ 20°C]	: 0.98
Vapour pressure	: N/A
Viscosity	: N/A
Solubility in water	: Miscible in water
Flash point [°C]	: N/A

10 Stability and reactivity

Conditions to avoid	: N/A
Chemical Stability	: Stable under the recommended storage conditions. Cfr. Section 7 "Storage". Bacterial degradation can occur if the Product is stored for an unusually long period or is stored under unsuitable conditions.
Materials to avoid	: Mineral Acids
Hazardous decomposition products	: Carbon monoxide in a fire, carbon dioxide in a fire, Acetic Acid

11 Toxicological information

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.
------------	--

12 Ecological information

Ecotoxicity	: The Product is soluble 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. with 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	: Unknown

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



MATERIAL SAFETY DATA SHEET

Page :4

Revised edition no : 01

P-808/50 BONDING AGENT

Effective Date: 16-7-2014

13 Disposal Considerations - continuous

- 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 TLC-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 or rivers.
- This product is ash less and can be burned directly in appropriate equipment.

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, Packaging and Labeling of Hazardous Chemicals) Regulations 1997
Safety advice : (May contain information in excess of requirements under applicable laws.
S23 Do not breathe gas/fumes/vapor/spray
S24 Avoid contact with skin
S33 Take precautionary measures against static discharges
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

16 Other information

Further information : None
Print date : 16-7-2014

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.

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