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## SECTION 1: Identification of the substance/mixture and of the company/undertaking ·

### · 1.1 Product identifier ·

· Trade name: 2-Component Epoxy Moisture Barrier Comp A.

### · 1.2 Relevant identified uses of the substance or mixture and uses advised against ·

· Sector of Use

· SU19 Building and construction work

· SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
For professional use only. ·

· Product category PCI Adhesives, sealants ·

· Application of the substance / the mixture 2-Component Epoxy Moisture Barrier (Component A) ·

### · 1.3 Details of the supplier of the safety data sheet ·

· Manufacturer/Supplier:

· Shanghai Nature Building Materials Co.,Ltd.

· No.4th floor the 9th building. Kangjian plaza, No.1228

· Shanghai PR-China

· TEL: 0086-21-54789815 FAX: 0086-21-54789815

## SECTION 2: Hazards identification ·

### · 2.1 Classification of the substance or mixture ·

· Classification according to Regulation (EC) No 1272/2008



· GHS09 environment

· Aquatic Chronic 2 Toxic to aquatic life with long lasting effects.



· GHS07

· Skin Irrit. 2 Causes skin irritation.

· Eye Irrit. 2 Causes serious eye irritation.

· Skin Sens. 1 May cause an allergic skin reaction. ·

### · 2.2 Label elements ·

· Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

· Hazard pictograms GHS07, GHS09 ·

· Signal word Warning ·

· Hazard-determining components of labelling: reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (with an average molecular weight  $\leq 700$ ) 1,6-Hexanediol diglycidyl ether ·

· Hazard statements Causes skin irritation.

· Causes serious eye irritation.

· May cause an allergic skin reaction.

· Toxic to aquatic life with long lasting effects. ·

· Precautionary statements Avoid release to the environment.

· Wear protective gloves/protective clothing/eye protection/face protection.

· IF ON SKIN: Wash with plenty of soap and water.

· IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- \* · If skin irritation or rash occurs: Get medical advice/attention.
- If eye irritation persists: Get medical advice/attention.
- Additional information: EUH205 Contains epoxy constituents. May produce an allergic reaction. ·

## SECTION 3: Composition/information on ingredients ·

- **3.2 Chemical characterisation: Mixtures ·**
- Description: Mixture of substances listed below with nonhazardous additions. ·
- Dangerous components:
- CAS: 25068-38-6
- reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (with an average molecular weight  $\leq 700$ )  
Aquatic Chronic 2, Skin Irrit. 2; Eye Irrit. 2, Skin Sens.
- CAS: 16096-31-4
- 1,6-Hexanediol diglycidyl ether Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic.

## SECTION 4: First aid measures ·

- **4.1 Description of first aid measures ·**
- General information: Immediately remove any clothing soiled by the product. ·
- After inhalation: Supply fresh air; consult doctor in case of complaints. ·
- After skin contact: Immediately wash with water and soap and rinse thoroughly. ·
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor. ·
- After swallowing: Do not induce vomiting; call for medical help immediately. ·
- **4.2 Most important symptoms and effects, both acute and delayed Allergic reactions ·**
- **4.3 Indication of any immediate medical attention and special treatment needed**
- Also observe the safety data sheet of component B.

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media ·**
- Suitable extinguishing agents: CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. ·
- For safety reasons unsuitable extinguishing agents: Water with full jet ·
- **5.2 Special hazards arising from the substance or mixture No further relevant information available**
- **5.3 Advice for firefighters · Protective equipment: Mouth respiratory protective device**

## SECTION 6: Accidental release measures ·

- **6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation ·**
- **6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water. ·**
- **6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. ·**
- **6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.**

## SECTION 7: Handling and storage ·

- **7.1 Precautions for safe handling**
- Wear suitable protective clothing, gloves and eye/face protection. Immediately remove all soiled and contaminated clothing Avoid contact with the eyes and skin. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. · Information about fire - and explosion protection: No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities ·**
- Storage: ·
- Requirements to be met by storerooms and receptacles: No special requirements. ·

- \* · Information about storage in one common storage facility: Not required. ·
- Further information about storage conditions: Keep container tightly sealed. Protect from frost. ·
- **7.3 Specific end use(s)** No further relevant information available.

## **SECTION 8: Exposure controls/personal protection ·**

- **Additional information about design of technical facilities:** No further data; see item 7. ·
- **8.1 Control parameters ·**
- **Ingredients with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **8.2 Exposure controls**
- **Personal protective equipment:**  
General protective and hygienic measures: Immediately remove all soiled and contaminated clothing. Wear suitable protective clothing, gloves and eye/face protection. Avoid contact with the eyes and skin. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not necessary. Ensure that room is well-ventilated during processing.
- **Protection of hands:**
- **Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability. ·**
- **Material of gloves:** Butyl rubber, BR Nitrile rubber, NBR. Recommended thickness of the material:  $\geq 0.5$  mm ·
- **Penetration time of glove material:** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. ·
- **Eye protection:** Tightly sealed goggles

## **SECTION 9: Physical and chemical properties ·**

- **9.1 Information on basic physical and chemical properties ·**
- **General Information ·**
- **Appearance:**
- **Form:** Fluid **Colour:** Yellowish ·
- **Odour:** Weak, characteristic ·
- **Odour threshold:** Not determined. ·
- **pH-value:** Not determined. ·
- **Change in condition**
- **Melting point/freezing point:** Undetermined.
- **Initial boiling point and boiling range:** Undetermined. ·
- **Flash point:**  $> 100$  °C ·
- **Flammability (solid, gas):** Not applicable. ·
- **Ignition temperature:**  $> 200$  °C ·
- **Decomposition temperature:** Not determined. ·
- **Auto-ignition temperature:** Product is not selfigniting. ·
- **Explosive properties:** Product does not present an explosion hazard. ·
- **Explosion limits:** Lower: Not determined.
- **Upper:** Not determined. ·
- **Vapour pressure:** Not determined.
- **Density at 20 °C:** 1,1 g/cm<sup>3</sup> ·
- **Relative density:** Not determined. ·
- **Vapour density:** Not determined. ·
- **Evaporation rate:** Not determined. ·
- **Solubility in / Miscibility with water:** Not miscible or difficult to mix. ·
- **Partition coefficient:** n-octanol/water: Not determined.
- **Viscosity:** Dynamic at 20 °C: 400 mPas

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### **10.1 Reactivity No further relevant information available. ·**

- **10.1 Reactivity No further relevant information available. ·**
- **10.2 Chemical stability · Thermal decomposition / conditions to be avoided: No decomposition if used- according to specifications. ·**
- **10.3 Possibility of hazardous reactions May produce violent reactions with bases and numerous organic substances including alcohols and amines. Exothermic polymerisation. ·**
- **10.4 Conditions to avoid No further relevant information available. ·**
- **10.5 Incompatible materials: No further relevant information available. ·**
- **10.6 Hazardous decomposition products: Irritant gases/vapours At elevated temperatures hazardous decomposition products such as carbon dioxide, carbon monoxide, smoke or nitric oxides may be evolved.**

### **SECTION 11: Toxicological information ·**

- **11.1 Information on toxicological effects ·**
- **Acute toxicity Based on available data, the classification criteria are not met. ·**
- **Primary irritant effect: ·**
- **Skin corrosion/irritation Causes skin irritation. ·**
- **Serious eye damage/irritation Causes serious eye irritation. ·**
- **Respiratory or skin sensitisation May cause an allergic skin reaction. ·**
- **Additional toxicological information: The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for mixtures as issued in the latest version: ·**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) ·**
- **Germ cell mutagenicity Based on available data, the classification criteria are not met. ·**
- **Carcinogenicity Based on available data, the classification criteria are not met. ·**
- **Reproductive toxicity Based on available data, the classification criteria are not met. ·**
- **STOT-single exposure Based on available data, the classification criteria are not met. ·**
- **STOT-repeated exposure Based on available data, the classification criteria are not met. ·**
- **Aspiration hazard Based on available data, the classification criteria are not met.**

### **SECTION 12: Ecological information ·**

- **12.1 Toxicity**
- **Aquatic toxicity: No further relevant information available. ·**
- **12.2 Persistence and degradability No further relevant information available. ·**
- **12.3 Bioaccumulative potential No further relevant information available. ·**
- **12.4 Mobility in soil No further relevant information available. ·**
- **Ecotoxicological effects: ·**
- **Remark: Toxic for fish**
- **Additional ecological information: ·**
- **General notes: Do not allow product to reach ground water, water course or sewage system. Toxic for aquatic organisms Also poisonous for fish and plankton in water bodies. ·**
- **12.5 Results of PBT and vPvB assessment ·**
- **PBT: Not applicable. ·**
- **vPvB: Not applicable. ·**
- **12.6 Other adverse effects No further relevant information available**

### **SECTION 13: Disposal considerations ·**

- **13.1 Waste treatment methods ·**
- **Recommendation**  
The product contains materials that are harmful to the environment. Do not allow product to reach ground water, water course or sewage system. Disposal should be in accordance with local, state or national legislation. ·

- \* · Uncleaned packaging: ·
- Recommendation:
- Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

## SECTION 14: Transport information ·

- **14.1 UN-Number ·**
- ADR, IMDG, IATA UN3082 ·
- **14.2 UN proper shipping name ·**
- ADR 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A-epoxy resin (average molecular weight  $\leq 700$ )) ·
- IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A-epoxy resin (average molecular weight  $\leq 700$ )), MARINE POLLUTANT ·
- IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A-epoxy resin (average molecular weight  $\leq 700$ )) ·
- **14.3 Transport hazard class(es) ·**
- ADR, IMDG, IATA ·



- Class 9 Miscellaneous dangerous substances and articles. ·
- Label 9
- 14.4 Packing group ·
- ADR, IMDG, IATA III ·
- 14.5 Environmental hazards: ·
- Marine pollutant: Yes Symbol (fish and tree) ·
- Special marking (ADR): Symbol (fish and tree) ·
- Special marking (IATA): Symbol (fish and tree)
- 14.6 Special precautions for user Warning: Miscellaneous dangerous substances and articles. ·
- Danger code (Kemler): 90 ·
- EMS Number: F-A,S-F · Stowage Category A ·
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. ·
- Transport/Additional information: ·
- ADR ·
- Limited quantities (LQ) 5L ·
- Transport category 3 ·
- Tunnel restriction code E ·
- UN "Model Regulation": U N 3 0 8 2 E N V I R O N M E N T A L L Y H A Z A R D O U S SUBSTANCE, LIQUID, N.O.S. (BISPHENOL-A-EPOXY RESIN (AVERAGE MOLECULAR WEIGHT  $\leq 700$ )), 9, II

## SECTION 15: Regulatory information ·

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture ·**
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 30 ·
- National regulations: ·
- Other regulations, limitations and prohibitive regulations ·
- Substances of very high concern (SVHC) according to REACH, Article 57 CAS: 80-05-7 4,4'-isopropylidenediphenol ·
- **15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**

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**SECTION 16: Other information**

· This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. ·

· **Relevant phrases**

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H360F May damage fertility.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects. ·
- Recommended restriction of use For professional use only. ·
- Contact: Shanghai Nature Building Materials Co.,Ltd.
- No.4th floor the 9th building. Kangjian plaza,No.1228
- Shanghai PR-China
- TEL: 0086-21-54789815

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent.