

Safety data sheet

Version : 1.0

PU-2944

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

1.1 Product identifier

Trade name : PU-2944

Product classification: Water-based PU Adhesive

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

No further relevant information available.

Application of the substance / the preparation: Preparation of coatings

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

YINGDE GUOCAI FINE CHEMICAL CO., LTD.

Head Office Address:KAIDI CHEMICAL INDUSTRIAL PARK, BAISHA TOWN, YINGDE CITY,
GUANGDONG PROVINCE, CHINA

Further information obtainable from:

Tel: 86-763-2811205

Fax : 86-763-2811024

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

SECTION 3: Composition/information on ingredients

3.1 Composition :

Substrate	Content (wt%)	CAS No.
Polyurethane dispersion	35±2	9009-54-5
N-ethyl Pyrrolidone (NEP)	≈12	2687-91-4
Deionized water	53±2	7732-18-5

Dangerous components: Void

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SECTION 4: First aid measures

4.1 Description of first aid measures

· *General information:*

In the event of an accident or symptoms of feeling unwell, immediately consult a physician (if possible, show the Instructions for Use or the Safety Data Sheet).

- *After inhalation:* Supply fresh air; consult doctor in case of complaints.
- *After skin contact:* Wash with water and soap and rinse thoroughly.
- *After eye contact:* Rinse opened eye for several minutes under running water.
- *After swallowing:* If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

· *Suitable extinguishing agents:*

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

· 6.2 Environmental precautions:

Dilute with plenty of water.

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).

· 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.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling No special measures required.

· **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: 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.

· **Additional information:** The lists valid during the making were used as basis.

8.2 Exposure controls

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:** Not required.

· **Protection of hands:** Protective gloves and protective skin cream

· **Eye protection:** Goggles recommended during refilling

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance: Semi-transparent

Form: Liquid

Odour: Characteristic

pH-value at 20 °C: 7-9

Change in condition

Melting point/Melting range: Not determined

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Boiling point/Boiling range:	100 °C
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	Not applicable.
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Density at 20 °C:	1.0 - 1.1 g/cm ³
Relative density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with water:	Fully miscible.
Viscosity:	
Dynamic at 20 °C:	<250 mPa.s
Kinematic:	Not determined.
Solids content:	35%±2
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

· **Acute toxicity:**

· **Primary irritant effect:**

· **on the skin:** No irritant effect.

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- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
- **Repeated dose toxicity** No further relevant information available.
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
No further relevant information available.

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.

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:**

The mixture contains no substance conforming to the PBT criteria of REACH Regulation, Annex XIII.

· **vPvB:**

The mixture contains no substance conforming to the vPvB criteria of REACH Regulation, Annex XIII.

- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agents:**

Water, if necessary together with cleansing agents.

Keep contaminated washing water and dispose of appropriately.

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SECTION 14: Transport information

14.1 UN-Number	Void
· <i>ADR, ADN, IMDG, IATA</i>	
14.2 UN proper shipping name	Void
· <i>ADR, ADN, IMDG, IATA</i>	
14.3 Transport hazard class(es)	Void
· <i>ADR, ADN, IMDG, IATA</i>	
· Class	Void
14.4 Packing group	Void
· <i>ADR, IMDG, IATA</i>	
14.5 Environmental hazards:	
· <i>Marine pollutant:</i>	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

SECTION 15: Regulatory information

15.1 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

Department issuing MSDS: Regulatory Affairs