



SAFETY DATA SHEET (SDS)

Polyacrylamide (PAM)

Supplier / Manufacturer:	Henan Tairan Water Purification Material Co. LTD (source MSDS)
Product name:	Polyacrylamide (PAM)
Technical code:	724
Emergency tel / Contact:	[+86 18538555671]

1. Identification

Product identifier: Polyacrylamide (PAM)

Relevant identified uses: Industrial flocculant; sludge conditioning; solid-liquid separation; papermaking retention aid

Manufacturer / Supplier: Henan Tairan Water Purification Material Co. LTD (source MSDS)

Address: [Insert full company address]

Emergency telephone: [+86 18538555671]

Technical document code: 724

Note: May contain residual acrylamide monomer (Acrylamide CAS 79-06-1). Verify concentration for compliance.

2. Hazard(s) identification

Classification: Not classified in supplied MSDS. Verify residual monomer levels for any required classification.

Signal word: None (confirm if classification needed)

Hazard statements: No specific hazard statements in source MSDS. Potential hazard from residual acrylamide.

Precautionary statements: Avoid inhalation of dust. Avoid eye and prolonged skin contact. Use PPE.



3. Composition / information on ingredients

Substance: Polyacrylamide polymer (solid)

Impurities / hazardous components: Residual acrylamide monomer may be present — Acrylamide (CAS 79-06-1). Supplier must state % if >0.01%

4. First-aid measures

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present. Seek medical attention if irritation persists.

Skin contact: Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation occurs.

Inhalation: Move to fresh air. If breathing difficulties occur, seek medical attention.

Ingestion: Rinse mouth. Do not induce vomiting unless instructed by medical personnel. Seek medical advice.

5. Fire-fighting measures

Suitable extinguishing media: Water spray, foam, dry chemical, CO₂ (use media suitable for surrounding fire).

Specific hazards: Treat as combustible dust risk. Dust may form explosive mixtures in air; dust becomes slippery when wet.

Protective equipment: Firefighters should use self-contained breathing apparatus (SCBA) and full protective gear.

6. Accidental release measures

Personal precautions: Avoid dust formation. Wear PPE: gloves, goggles, dust respirator if needed.

Environmental precautions: Prevent product entering drains and waterways.



Cleanup methods: Sweep/vacuum and collect for disposal. Avoid creating dust clouds. For wet product, use absorbent and remove mechanically.

7. Handling and storage

Handling: Avoid dust; use local exhaust ventilation; handle with appropriate PPE.

Storage: Store in a cool, dry, ventilated area; keep containers sealed; away from oxidizers. Shelf life ~12 months under dry storage.

8. Exposure controls / personal protection

Occupational exposure limits: No OEL in source MSDS. If residual acrylamide present, follow local OELs and take action.

Engineering controls: Provide ventilation, safety shower and eyewash stations.

PPE: Eye protection: goggles. Skin: protective clothing and chemical-resistant gloves. Respiratory: particulate respirator if dust is present.

9. Physical and chemical properties

Appearance: White granular / powder

Odor: Odorless

pH: Not applicable for solid; aqueous solutions vary by grade

Solubility: Soluble in water; forms viscous solutions

Bulk density (typical): ~0.8 g/cm³ (varies by grade)

Flash point: Not provided — confirm with manufacturer

10. Stability and reactivity

Stability: Stable under recommended storage/handling.



Conditions to avoid: Avoid strong oxidizers, excessive heat, dust cloud formation.

Decomposition products: Thermal decomposition may yield CO_x, NO_x and other compounds.

11. Toxicological information

Acute toxicity: Source MSDS reports non-toxic on ingestion in animal tests; verify with manufacturer data.

Irritation: May cause mechanical irritation to eyes/respiratory tract if dust inhaled.

Chronic toxicity: Residual acrylamide monomer may pose chronic hazards; confirm levels.

12. Ecological information

Ecotoxicity: No specific data in source MSDS.

Mobility: Water-soluble polymer; retained in sludge; avoid uncontrolled release.

Biodegradability: Not readily biodegradable; polymer may persist.

13. Disposal considerations

Waste disposal: Dispose per local regulations. Incineration permitted where allowed.

Contaminated packaging: Empty bags may be rinsed and recycled or disposed in accordance with regulations.

14. Transport information

UN number: Not classified as dangerous goods in source MSDS — confirm with carrier.

Transport hazard class: Not classified. Use precautions to avoid dust release during transport.



15. Regulatory information

Regulatory status: Not classified as hazardous in provided MSDS. For potable water use ensure residual acrylamide meets regulatory limits.

Inventory lists: Check IECSC, TSCA or other national inventories as required for export/import.

16. Other information

Prepared by: Translated and reformatted from supplied Henan Tairan Water Purification Material Co. LTD MSDS.

Revision note: Verify and insert: residual acrylamide %, manufacturer contact, flash point, and any regional regulatory references.



Technical Specifications (Typical Values)

Parameter	Typical Value
Appearance	White granular / powder
Solid content	≥88%
Molecular weight	5–20 million Da (selectable)
Ionic charge	Anionic (low/medium/high)
Dissolution	0.1–0.5% working solution; dissolve under low shear
Shelf life	12 months under dry storage

Disclaimer: This SDS was prepared from the supplied MSDS. Critical data points must be confirmed by the manufacturer. Use only the verified final SDS for regulatory submission or distribution.