

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name(s): **Polyaspartic Acid (PASP)**

Shandong Yuanlian Chemical Co., Ltd.

Jining, Shandong Province, China

For emergency or additional info. +86-537-3379963

2. Hazards Identification :HAZARDS IDENTIFICATION

Potential Health Effects:

Inhalation: Not a likely route of exposure.

Eye contact: Not known to produce irritation.

Skin contact: Not known to produce irritation.

Ingestion: Not known to be harmful. May cause nausea, vomiting and diarrhea.

European Classification : Non-hazardous

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	% by weight
L-aspartic acid, homopolymer, sodium salt	CAS#: 34345-47-6	> 94%

4. FIRST AID MEASURES

Inhalation: Remove to fresh air.

Eye Contact: Immediately flush with water for a minimum of 15 minutes.

Contact a physician if irritation persists.

Skin Contact: Flush with large amounts of water. Use soap if available.

Launder clothing prior to reuse.

Ingestion: Do not induce vomiting. Give large quantities of water. Contact a physician.

5. FIREFIGHTING MEASURES

Flash Point: None (PMCC)

Flammable Limits: Not applicable

Autoignition Temperature: Not available

Extinguishing Media: Water spray or any Class A extinguishing agent.

Special Fire Fighting Procedures: Fire fighters and others who may be exposed to dust or products of combustion must wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Dispose of in accordance with applicable federal, state and local regulations.

Do not blow material. Use Vacuum equipment designed specifically for handling combustible dusts. Product itself is classified as a non-hazardous polymer waste for disposal purposes.

7. HANDLING AND STORAGE

Store product at ambient temperature. Keep containers closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: General ventilation is adequate.

Personal Protection:

Respiratory protection: Not required under normal use and conditions.

Eye protection: Chemical goggles

Hand protection: Butyl rubber or PVC gloves

9. PHYSICAL AND CHEMICAL PROPERTIES

Color/Form:	Golden solid
PH (40% solution):	9-11
Flash point	None
Specific Gravity (47%):	1.29 – 1.34
Solubility:	Very soluble in water
LogPow:	< 3
Viscosity (47%):	120 – 220
Specific Gravity (47%):	1.29 – 1.34

10. Stability and Reactivity :STABILITY AND REACTIVITY

General: This product is stable.

Incompatible Materials and Conditions to Avoid: Possible interactions with strong oxidizers.

11. TOXICOLOGICAL INFORMATION

Acute oral LD50 (Rat): >5000 mg/Kg (non-toxic – limit test, no mortality)

Data for product as 40% solution in water:

Acute inhalation LC50 (Rat): > 5.1 mg/l (4-hour – limit test, no mortality)

Eye Irritation (Rabbit): Non-irritant

Dermal Irritation (Rabbit): Non-irritant

12. ECOLOGICAL INFORMATION

This product is regarded as inherently biodegradable under OECD guidelines.

Data for product as a 40% solution in water:

Ecotoxicity – Fresh Water :

Water Fleas (<i>Daphnia pulex</i>)	48 hr LC50:	1792 mg/l
Fathead minnow	48 hr LC50:	2117 mg/l
Algae (<i>Selenastrum capricornutum</i>):	96 hr NOEC: 62 mg/l, LOEC:	125 mg/l

Ecotoxicity – Sea water :

Algae (<i>Skeletonema costatum</i>):	72 hr LC50	> 1000 mg/l
Juvenile Turbot (<i>Scophthalmus maximus</i>):	96 hr LC50	> 1000 mg/l
Crustacean (<i>Acartia tonsa</i>):	48 hr LC50	> 2000 mg/l

13. DISPOSAL CONSIDERATIONS

Material is classified as a non-hazardous polymer waste for disposal purposes.

Contact a licensed chemical waste hauler to ensure proper disposal.

14. TRANSPORT INFORMATION

US DOT: This material is classified as non-hazardous under Department of Transportation regulations.

United Nations: This material is not classified for transportation.

15. REGULATORY INFORMATION

TSCA: This product and its components are listed on the TSCA Inventory.

EINECS: All monomers, reactants and other components are listed on EINECS.

CERCLA: Not reportable.

SARA Title III:

311/312 Hazard Categories: Non-hazardous

313 Reportable Ingredients: None

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www.yuanlianchem.com

European Information: Non-hazardous material.

16. OTHER INFORMATION

This product's Material Safety Data Sheet provides environment, health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions. The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Shandong Yuanlian Chemical Co., Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.