

## Safety Data Sheet

**ART-JS2****1. Chemical Product and Company Identification**

|                      |                                                   |          |        |
|----------------------|---------------------------------------------------|----------|--------|
| Chemical name        | Standard Type High Range Water Reducing Admixture |          |        |
| Product name         | ART-JS2                                           |          |        |
| Application          | Water Reducing Admixture for Concrete             |          |        |
| Company name         | Jiangsu Arit New Materials Co., Ltd               |          |        |
| Address              | 22 Huixin Road, Nanjing , China                   | Zip code | 211505 |
| Email                | info@arit.com                                     |          |        |
| Contact phone number | 86-25-57675555                                    |          |        |

**2. Composition/Information on Ingredients**

| Components                  | CAS No.    | Contents     |
|-----------------------------|------------|--------------|
| Sodium polycarboxylate salt | 62601-60-9 | 18.00~20.00% |
| Polyethylene glycol         | 25322-68-3 | 0.10~3.00%   |
| Sodium Acrylate             | 7446-81-3  | 0.01~1.00%   |
| Water                       | 7732-18-5  | 76.00~81.89% |

**3. Hazards Identification**

Hazard Category: This product is an aqueous mixture of organic polymers and compounds. It is non-flammable, non-explosive and non-toxic.

Invasion way: Skin and eyes contact, inhalation and mistake ingestion.

Health effect: May cause eye irritation. No stimulation to skin. May cause stimulation to oral cavity and stomach after mistake intake. No carcinogenicity.

Environment effect: Slight harm to fish and other animals.

Other hazards: None.

**4. First Aid Measures**

Skin contact: Take off contaminated clothing and wash off with soap and flowing water.

Eye contact: Rinse immediately with plenty of water or normal saline. Seek immediate

medical help if feel itching and painful.

Ingestion: Drink enough warm water and vomit. Consult a physician.

Inhalation: Move to fresh air environment if odor allergies.

## **5. Fire-fighting Measures**

Hazardous characteristics: None.

Harmful burning waste: The aqueous solution is non-combustible. The solid composition burns to form carbon dioxide.

Extinguishing media: Foam, dry powder, carbon dioxide extinguishers or water sprays.

## **6. Accidental Release Measures**

Release measures: Cut off the leakage sources. Prevent the released material from entering confined space such as sewers, flood discharge trench and so on.

Little leakage: Soak up with absorbent material, such as clay, sand, vermiculite or other inert materials. The diluted leakage can be discharged to the wastewater treatment system.

Mass leakage: If the leakage is not contaminated, collect the spills with a clean container for reuse. Construct a barrier or dig pits to hold waste leakage, then pump to tank or special collector, and transport to the waste disposal sites.

Elimination method: Collect the leakage, and wash the leakage with water.

Waste disposal: According to local environmental requirements.

## **7. Handling and Storage:**

Handling note: Avoid contact with skin or eyes. Wear personal protective equipment.

Storage note: Stored in a cool and dry place, keep away from sunshine, rain, fire and heat.

## **8. Exposure Controls/Personal Protection**

The maximum allowable concentration: Unlimited.

Monitoring method: No standard.

Engineering control: Ensure adequate ventilation.

Respiratory protection: If this concentration is exceeded, self contained breathing apparatus must be used.

Eye protection: Safety eyewear is recommended.

Body protection: Workwear is recommended.

Hand protection: Protective gloves are recommended.

Other protection: No eating and drinking in work area in order to avoid the mistake.

## **9. Physical and Chemical Properties:**

Appearance: liquid

Color: Brown or burgundy

Odor: faint

pH:  $6.0 \pm 1$

Melting point: about  $-8^{\circ}\text{C}$

Boiling point: about  $110^{\circ}\text{C}$

Relative density (Water=1):  $1.04 \pm 0.02 \text{ g/cm}^3$

Solubility: soluble in water

Explosive limit/%(V/V): insignificance

Flash point: insignificance

## **10. Stability and Reactivity**

Chemical Stability: Good chemical stability. But if placed in high-temperature summer environment, bacterial contamination, bad smell and appearance deterioration is hard to avoid.

Conditions to avoid: High temperature or frozen environment.

Incompatibility with other materials: Rust, oily substances.

Hazardous polymerization: None.

Decomposition product: None.

## **11. Toxicological Information:**

Acute toxicity: None,  $\text{LD}_{50} > 20 \text{ g/kg}$

Subacute and chronic toxicity: No information available.

Irritation: Have a stimulating effect to eyes, and a mild stimulating effect to mouth and stomach if mistake intake.

Sensitization: None.

Mutagenicity: None.

Teratogenicity: None.

Carcinogenicity: None.

Special note: None.

## **12. Ecological Information:**

Ecotoxicity: No information available.

Biodegradability: Partially biodegradable.

Non-biodegradable: No information available.

Bioconcentration or bioaccumulation: No information available.

**13. Disposal Considerations:**

Nature of waste: non-hazardous waste, non-industrial solid waste.

Waste Disposal Method: proper burial place or treatment according to local environmental requirements.

**14. Transport Information:**

|                      |                      |                         |                                                |
|----------------------|----------------------|-------------------------|------------------------------------------------|
| Dangerous Goods Code | Not available        | Shipping classification | Not available                                  |
| UN Number            | Not available        | Packing                 | Plastic containers, Anti-corrosion tank trucks |
| Package Markings     | Non-dangerous liquid | Transport Caveats       | None                                           |

**15. Regulatory Information**

This product is not classified as dangerous goods according to transport international regulations (IMDG, IATA, ADR/RID).

It is not limited by the hazardous chemical materials according to safety management regulations.

**16. Additional Information**

|                     |              |            |                                  |
|---------------------|--------------|------------|----------------------------------|
| Revision date       | June, 2025   | Supervisor | Nanjing University of Technology |
| Guidance Department | R & D Center | Version    | Second Edition                   |