

Safety Data Sheet

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

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|----------------------|--|-----------|--------|
| Chemical name | Temperature Rise Inhibition and Crack Resistance and Waterproofing Admixture | | |
| Trade name | ART-TRI | | |
| Application | Inhibiting cement hydration temperature rise, preventing concrete cracking and leakage | | |
| Manufacturer | 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

| Component | CAS No. | Content |
|------------------|-----------|--------------|
| Calcium Stearate | 1592-23-0 | 50.00~60.00% |
| Sodium Sorbitan | 7757-81-5 | 30.00~35.00% |
| Corn Starch | 9005-25-8 | 10.00~15.00% |

3. Hazards Identification

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

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

Health effect: May cause eye irritation. No stimulation to skin. May cause stimulation to oral cavity and stomach after accidental 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: If experiencing odor sensitivity, move to fresh air environment.

5. Fire-fighting Measures

Hazardous characteristics: None.

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

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 accidental ingestion.

9. Physical and Chemical Properties:

Form: Solid

Color: White

Odor: faint

pH: 7.0 ± 1

Melting point: About 100°C

Boiling point: About 200°C

Density (g/mL at 25°C): 1.28 ± 0.05

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: Has a stimulating effect on eyes, and a mild stimulating effect to mouth and stomach if accidental 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 | In Ibc or tanker truck |
| Package Markings: | Non-dangerous | 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

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| Guidance Department | R & D Center | Version | Second Edition |