ARIT。奥莱特

Safety Data Sheet

ART-HQ310

| 1. Chemical I roduct and Company Identification | | | | | |
|---|--|----------|--------|--|--|
| Chemical name | Alkali-free Powder Accelerator | | | | |
| Trade name | ART-HQ310 | | | | |
| Application | Flash setting admixture for sprayed concrete | | | | |
| Manufacturer | Jiangsu Arit New Materials Co., Ltd | | | | |
| Address | 22 Huixin Road, Nanjing, China | Zip code | 211505 | | |
| Email | Arit888@163.com | | | | |
| Fax Number | 86-25-57678989 | | | | |
| Emergency phone number | 86-25-57675555 | | | | |

1. Chemical Product and Company Identification

2. Composition/Information on ingredients

| Component | CAS No. | Content | |
|-----------------------|------------|-------------|--|
| Aluminium sulphate | 10043-01-3 | 40.0%~50.0% | |
| Aluminium hydroxide | 21645-51-2 | 25.0%-35.0% | |
| Diethanolamine (DEA) | 111-42-2 | 10.0%~15.0% | |
| Triethanolamine (TEA) | 102-71-6 | 5.0%~10.0% | |

Note: The total percentage of the above components adds up to 100%.

3. Hazards Identification

Hazard Category: 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 solid composition burns to form carbon dioxide and a small amount of sulfur oxides.

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, avoid moisture, 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, selfcontained 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. Avoid the generation of dust. Avoid contact with oxidizing agents. Handle with care to prevent damage to the packaging during transportation. Equip with spill emergency response equipment.

9. Physical and Chemical Properties:

Form: Powder Color: Off-white or beige Odor: No irritating odor pH: 2.0~4.0 Chloride ion content: ≤0.1% Total alkalinity: ≤1% Melting point: >200°C Boiling point: Insignificance Relative density (Water=1): 2.85±0.3 Solubility: Soluble in water Explosive limit/% (V/V): Insignificance Flash point: Insignificance

10. Stability and Reactivity

Chemical Stability: Good chemical stability. Conditions to avoid: High temperature or wet environment. Incompatibility with other materials: Rust, oily substances. Hazardous polymerization: None. Decomposition product: None.

11. Toxicological Information:

Acute toxicity: None, LD₅₀>20 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 known ecotoxicological effects. 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 | Not available | Shipping | Not available | |
|------------------|---------------|----------------|--------------------|--|
| Code | Not available | classification | Not available | |
| UN Number | Not available | Packing | IBC Tank/Flexitank | |
| Package Markings | Not available | Transport | None | |
| | | 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 | Feb 10th, 2024 | Supervisor | Nanjing University of Technology |
|------------------------|----------------|------------|-------------------------------------|
| Guidance Department | R & D Center | Version | Second Edition |