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Technical Data Sheet (TDS)

1. Product Overview

- Product Name: Sodium Dichloroisocyanurate (SDIC)
- English Name: Sodium Dichloroisocyanurate
- CAS Number: 2893-78-9
- Formula: $C_3Cl_2N_3NaO_3$
- Molecular Weight: 219.95 g/mol
- Product Characteristics: High-efficiency, stable chlorinated disinfectant and oxidizing agent. Releases chlorine slowly in water, providing long-lasting bactericidal, virucidal, and fungicidal effects. Stable under dry storage conditions, non-hygroscopic (compared to other chlorinated disinfectants). Suitable for water treatment, disinfection, and bleaching across industrial and municipal fields.

2. Technical Specifications (Complies with GB/T 22388-2008)

Item	Specification
Appearance	White crystalline powder or granular solid
Available Chlorine Content	55.0-60.0%
Moisture Content	≤ 3.0%
pH Value (1% Aqueous Solution, 25℃)	5.0-7.0
Insoluble Matter in Water	≤ 0.1%
Heavy Metals (Pb)	≤ 0.0005%
Arsenic (As)	≤ 0.0001%
Mercury (Hg)	≤ 0.000005%
Cadmium (Cd)	≤ 0.00005%
Particle Size	80-200 Mesh (passing rate ≥ 95%)
Solubility (20℃, water)	≥ 25 g/100 mL
Stability	Retains ≥ 90% available chlorine after 24 months (25℃, dry storage)

3. Product Advantages

1. **High Stability**: Low moisture absorption, retains chlorine content longer than sodium hypochlorite; easy to store and transport.
2. **Efficient Disinfection**: Broad-spectrum activity against bacteria, viruses, fungi, and algae; kills 99.9% of pathogens quickly.
3. **Long-Lasting Effect**: Slow chlorine release ensures sustained disinfection, reducing application frequency.
4. **Versatile Applications**: Suitable for water treatment, surface disinfection, and bleaching; compatible with most water systems.
5. **Cost-Effective**: High available chlorine content (55-60%); low dosage, reducing overall disinfection costs.

4. Application Fields

- **Water Treatment**: Municipal drinking water disinfection; sewage treatment; swimming pool, spa, and aquarium water sterilization.
- **Surface Disinfection**: Medical facilities, food processing plants, public areas, and household surfaces; equipment and tool sterilization.
- **Bleaching**: Textile, paper, and pulp bleaching; stain removal from fabrics and industrial materials.
- **Wastewater Treatment**: Industrial wastewater (breeding, food processing, chemical) sterilization and deodorization.
- **Other Fields**: Food preservation (surface disinfection); aquaculture water disinfection; mold control in buildings.

5. Usage Methods

- **Dosage (as available chlorine)**:
  - Drinking Water Disinfection: 0.2-0.5 mg/L (dissolve and add to water).
  - Swimming Pool Water: 1.0-3.0 mg/L (maintain residual chlorine 0.3-0.5 mg/L).
  - Surface Disinfection: Dilute to 0.1-0.5% solution (1-5 g/L); spray or wipe, contact for 10-30 minutes.
  - Wastewater Treatment: 5-20 mg/L (adjust based on pollutant load).
- **Usage**: Dissolve in water before use; stir evenly; avoid contact with acids or ammonia.
- **Optimal Conditions**: Use at 15-35℃; pH 6.0-8.0 for best disinfection effect; avoid direct sunlight.

6. Packaging & Storage

- **Packaging Specifications**:
  - 25 kg kraft paper bags with PE inner lining (industrial grade).
  - 1 kg aluminum foil bags (household/commercial use).
  - 1000 kg FIBC bulk bags (large-scale industrial use).
  - Custom packaging available upon request.
- **Storage Conditions**: Store in cool, dry, well-ventilated warehouse (≤30℃); keep tightly closed; avoid moisture, direct sunlight, and high temperature; store separately from acids, reducing agents, combustibles, and organic materials.
- **Shelf Life**: 24 months (unopened, specified conditions); use promptly after opening.
- **Transportation**: UN 2465 (Class 5.1 Oxidizer); transport in sealed, corrosion-resistant containers; avoid collision, moisture, and mixing with incompatible substances.

7. Safety & Protection

- Strong oxidizer, corrosive, and toxic to aquatic organisms.
- Operators must wear chemical goggles, face shield, nitrile gloves, and acid-resistant clothing.
- In case of contact, rinse with plenty of water for ≥15 minutes; seek medical attention immediately.
- Do not ingest; if swallowed, rinse mouth with water and consult a doctor.
- Avoid mixing with acids (releases toxic chlorine gas); dispose of waste properly to protect the environment.

8. Quality Assurance

- Manufactured in accordance with ISO 9001 quality management system standards.
- Each batch is tested with a Certificate of Analysis (COA) to meet GB/T 22388-2008.
- Provide technical support: dosage adjustment, dilution method optimization, and safety operation guidance.