



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
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Safety Data Sheet (MSDS)

(According to GB/T 16483, GB/T 17519, and GHS Standards)

SECTION 1: Identification

1.1 Product Identifiers

- Product Name: Cyanamide
- Product Number:CYA-20260327
- Brand:TECHPURE
- CAS-No.:420-04-2
- Synonyms: Carbodiimide; Cyanamide Monomer

1.2 Details of the supplier of the safety data sheet

- Company : NEWAY SINOPHC TECH. LIMITED
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- Telephone : +86-021-50350029
- Fax : +86-021-50350029

1.3 Emergency telephone

Emergency Phone # : +86-021-50350029
(CHEMTREC)

1.4 Uses & Restrictions

- Identified Uses: Chemical synthesis intermediate, agricultural intermediate, laboratory reagent.
- Uses Advised Against: Food contact, medicinal purposes, unventilated enclosed space use.

SECTION 2: Hazards Identification

2.1 GHS Classification

- Flammable liquids (Category 3)
- Acute toxicity - Oral (Category 3)
- Skin irritation (Category 2)
- Eye irritation (Category 2)
- Aquatic toxicity (Category 1)

2.2 GHS Label Elements

- Hazard Pictogram: Flame; Skull and crossbones; Irritant; Environment
- Signal Word: Danger
- Hazard Statements: H226 (Flammable liquid and vapor); H301 (Toxic if swallowed); H315 (Causes skin irritation); H319 (Causes serious eye irritation); H400 (Very toxic to aquatic life)
- Precautionary Statements: P210 (Keep away from heat/sparks); P260 (Do not breathe vapor); P280 (Wear protective gloves/eye/respiratory protection); P304+P340 (If inhaled: Remove to fresh air)

SECTION 3: Composition/Information on Ingredients

- Substance / Mixture: Pure substance
- Active Component: Cyanamide (CAS 420-04-2)
- Concentration: $\geq 98.0\%$
- Impurities: $\leq 2.0\%$ (Water, dicyandiamide)

SECTION 4: First Aid Measures

- Inhaled: Move to fresh air; give oxygen if needed; seek emergency medical attention.
- Skin Contact: Rinse with running water for 15 minutes; remove contaminated clothing.
- Eye Contact: Rinse with plenty of water for 15 minutes; seek emergency medical attention.
- Swallowed: Do not induce vomiting; rinse mouth with water; seek immediate medical attention.

SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Dry powder, CO₂, foam, water spray.
- Special Hazards: Flammable vapor; toxic fumes (CO, NO_x, cyanide compounds) when burned.
- Advice for Firefighters: Wear self-contained breathing apparatus and full protective clothing.

SECTION 6: Accidental Release Measures

- Personal Precautions: Evacuate non-essential personnel; wear full PPE; eliminate ignition sources.
- Environmental Precautions: Prevent entry into drains/watercourses; use absorbents to contain contamination.
- Clean-Up Methods: Small spills: Absorb with inert materials; large spills: Contain and transfer to sealed containers.

SECTION 7: Handling and Storage

- Handling: Operate in well-ventilated areas with explosion-proof equipment; use anti-static tools.
- Storage: Cool, dry, well-ventilated warehouse ($\leq 25^{\circ}\text{C}$); sealed, away from heat/sparks/oxidizers.
- Incompatibilities: Strong oxidizers, acids, alkalis.

SECTION 8: Exposure Controls/Personal Protection

- PPE: Chemical safety goggles/face shield; nitrile rubber gloves; organic vapor respirator (P100).
- Exposure Limits: TWA (8h): 2 mg/m³ (proposed); STEL (15min): 5 mg/m³ (proposed).

SECTION 9: Physical and Chemical Properties

- Physical State: Liquid; Color: Colorless to pale yellow; Odor: Pungent
- Melting Point: 45.8°C; Boiling Point: 141°C; Flash Point: 43°C
- Density (20°C): 1.073 g/cm³; Viscosity (20°C): 2.3 mPa·s
- Water Solubility: Fully miscible; Vapor Pressure (25°C): 1.3 kPa
- Explosive Limits: 2.2-22.0% (v/v); Autoignition Temperature: 350°C

SECTION 10: Stability and Reactivity

- Stability: Stable under normal conditions; polymerizes at high temperature.
- Hazardous Reactions: Reacts violently with strong oxidizers/acids; forms explosive mixtures with air.

SECTION 11: Toxicological Information

- Acute Toxicity: Oral (Rat, LD₅₀): 320 mg/kg; Inhalation (Rat, LC₅₀): 1500 ppm (4h)
- Skin/Eye Irritation: Mild skin irritation; serious eye irritation.
- Chronic Toxicity: Long-term exposure may cause liver/kidney damage.

SECTION 12: Ecological Information

- Aquatic Toxicity: Fish (Rainbow Trout, LC₅₀): 100 mg/L (96h); Daphnia (EC₅₀): 150 mg/L (48h)
- Biodegradability: Moderately biodegradable (BOD₅ /COD = 0.3-0.4)

SECTION 13: Disposal Considerations

- Product Waste: Dispose as hazardous waste; incinerate in approved facilities.
- Packaging Waste: Rinse with solvent; dispose as hazardous waste or recycle.

SECTION 14: Transport Information

- UN Number: 2810
- UN Proper Shipping Name: CYANAMIDE, AQUEOUS SOLUTION
- Transport Hazard Class: 6.1 (Toxic substances) + 3 (Flammable liquid)
- Packaging Group: II
- Marine Pollutant: Yes
- Transport Precautions: Avoid direct sunlight, high temperature, and collision.

SECTION 15: Regulatory Information

- National Regulations: Hazardous Chemical Safety Management Regulation; Environmental Protection Law.
- International Regulations: GHS (Rev. 9); REACH (EU, listed); TSCA (US, listed); IMDG Code.

SECTION 16: Other Information

- Revision Date: 27 MAR 2026
- Disclaimer: This MSDS is based on current data; supplier not liable for improper use.