

## CYCLOHEXYLAMINE TDS

Chemical name: Cyclohexylamine

English nickname: Cyclohexylamine

CAS Number: 108-91-8

Chemical Formula: C<sub>6</sub>H<sub>13</sub>N

Molecular Weight: 99.174

Purity: ≥99.5%

UN Number: 2565

Danger class: 8+3

### Characters:

Appearance and properties: Clear colorless liquid.

Density: 0.867 (20°C) ;

Melting point: -17°C;

Boiling point: 134°C;

Flammable temperature: 293°C;

Flash point: 27°C;

Solubility: miscible with water, soluble in most organic solvents.

Heat of combustion (kJ/mol): no data available

Critical pressure (MPa): No data available

### Hazardous characteristics:

Dangerous properties: Flammable. Exposure to fire may produce harmful flammable gases or vapors. Explosive hazard when mixed with air at a certain concentration.

Health hazard: Harmful by inhalation. Bad for skin. Burns.

Environmental hazards: No data available

Flammability hazard: flammable

**Operation, disposal and storage:**

Operation precautions: closed operation, local exhaust. Operators must be specially trained and strictly abide by the operating procedures. It is recommended that the operator wear self-priming filter gas mask (full cover), wear anti-gas penetrant work clothes and rubber oil-resistant gloves. Keep away from fire and heat source. No smoking in workplace. Use explosion-proof ventilation systems and equipment. Prevent steam leakage into the workplace air. Avoid contact with oxidants and acids. Control the flow rate to prevent static electricity accumulation. Handling should be carried lightly to prevent damage to packaging and containers. Equipped with the corresponding variety and quantity of fire fighting equipment and leakage emergency treatment equipment. Empty containers may contain hazardous materials.

Storage precautions: Store in a cool and ventilated warehouse. Keep away from fire and heat source. The storage temperature should not exceed 30°C. Keep container sealed. Should be stored separately with oxidizer, acid, etc., do not mix storage. Do not store in large quantities or for long periods.

Explosion-proof lighting and ventilation facilities are adopted. Do not use mechanical equipment and tools that may cause sparks. The storage area shall be equipped with leakage emergency treatment equipment and suitable storage materials.

**Transportation matters needing attention:**

Transportation vehicles should be equipped with the corresponding variety and quantity of fire fighting equipment and leakage emergency treatment equipment. The exhaust pipe of the vehicle carrying this product shall be equipped with fire retardant device. During transportation, ensure that

containers do not leak, collapse, fall, or damage. It is strictly forbidden to mix and transport with oxidizer. During transportation, it should be protected from sun exposure, rain and high temperature. Stay away from fire and heat source during stopover. Vehicles should be thoroughly cleaned after transportation. Slip away should be forbidden in railway transportation.

**Applications:**

It is mainly used as solvent, and can also be used to produce desulfurizer, rubber antioxidant, vulcanization accelerator, plastic and textile chemical additives, boiler water treatment agent, metal corrosion inhibitor, emulsifier, preservative, antistatic agent, latex coagulant, petroleum additive, fungicide, insecticide and dye intermediate.