

## MELAMINE TDS

Chemical name: Melamine

English nickname: Melamine

CAS Number: 108-78-1

Chemical Formula: C<sub>3</sub>H<sub>6</sub>N<sub>6</sub>

Molecular Weight: 126.12

Purity: ≥99.5%

UN Number: 3263

### Characters:

Appearance and properties: White monoclinic crystal.

Density: 1.661 g/cm<sup>3</sup>;

Melting point: 354 °C;

Boiling point: 557.54 °C;

Flash point: 325.3 °C;

Solubility: Insoluble in water, slightly soluble in ethylene glycol, glycerin, ethanol, insoluble in ether, benzene, carbon tetrachloride.

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

Critical pressure (MPa): No data available

### Hazardous characteristics:

Health hazard: Long-term ingestion of melamine may cause damage to human reproductive capacity, bladder or kidney stones, bladder cancer, etc. For breastfeeding infants with less water and narrow kidneys, stones are more likely to form, and even kidney failure or death in severe cases.

### Operation, disposal and storage:

Operation precautions: Closed operation, full exhaust. Operators must be

specially trained and strictly abide by the operating procedures. It is recommended that the operator wear a self-priming filter dust mask, chemical safety glasses, protective work clothes, and rubber gloves. Avoid producing dust. Avoid contact with oxidants and acids. When handling, light loading and unloading should be done to prevent damage to packaging and containers. Equipped with leak emergency treatment equipment. Empty containers may have harmful residues.

Storage precautions: Store in a cool, ventilated warehouse. Keep away from fire and heat. It should be stored separately from oxidizers and acids, and should not be mixed. Storage areas should be equipped with suitable materials to contain leaks.

**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. 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:**

Melamine is an important nitrogen heterocyclic organic chemical raw material, mainly used as the main raw material of melamine formaldehyde resin (MF), organic element analysis reagent, also used in the synthesis of organic and resin for leather processing tanning agent and filler, but also used in wood, plastic, paint, paper, textile, leather, electrical, medicine and other industries. It

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can also be used as flame retardant, formaldehyde cleaning agent, chemical fertilizer and so on.