CG 617 Technical Date Sheet

1. Chemical Composition

Chemical Name:

DMTD

2,5-dimercapto-1,3,4-thiadiazole

CAS #: 1072-71-5

2. Product Description

CG 617, DMTD, is a heterocyclic chemical. It is also an aromatic chemical. The ring structure contains one sulfur atom and two nitrogen atoms. DMTD, its inorganic salts, and its derivatives, are widely used as corrosion inhibitors and metal deactivators, mainly for copper and its alloys, in many industries, such as lubricants and greases. DMTD can also be used as a chemical intermediate to synthesize many products with significant applications.

3. Applications

- Chemical Intermediate for multiple industries.
- Corrosion inhibitor for copper and brass.
- Rust preventative.
- Antioxidant.
- Used in water treatment, antifreeze fluids, lubricants, and greases.

4. Typical Chemical and Physical Properties

Property	**Results**
Appearance	Light yellow powder
Assay, %	98
Heat loss, 80 °C, 2h, % wt	0.1
Melting Point, °C	161 - 165
Solubility in water, 20 °C	20

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5. Packaging

50 kg / paper drum

6. Handling and Storage

Recommended handling temperature: Ambient temperature preferred.

Storage: the product is recommended to be stored in cool and dry areas. Direct sunlight should be avoided. Ambient temperature is highly recommended for long-term storage.

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