The world leading professional manufacturer and exporter of Thiourea Dioxide and bleaching agent FAS!

# Thiourea Dioxide

## I. Description of the Product

**Thiourea Dioxide** (TDO or TUD) is also named as Formamidine Sulfinic Acid. Its appearance is white crystal powder. Thiourea Dioxide is a stable compound with no strong reducing and oxidizing ability, and its dissolvability is 26.7g/l (20 °C), while its PH is 5.0 in saturated solution. TDO appears terrific stable even in 20° C -30° C solution, but when it is under heat or catalysesing by alkali, it decomposes gradually to produce sulfoxylic acid through formamidine sulfinic acid to exhibit a reducing action.

## **II. Applications of the Product**

TDO is a new kind of reducing agent that used as exchange of sodium hydrosulfite. It is widely used in textile and paper making industry. This product is also used in leather processing industry, paper, pulp and board industry, photographic industry, bleaching and reducing agents. This product is also a component of decolorisation agents. In macromolecule material industry, it is used as catalysis agent and stabilizer of resinic producing, and it is also used in organic synthesization of sensitizing material, and medicine, medical, spicery materials in fine chemicals, and also can be applied in the recycling and separating of heavy metals.

# III. Quality Terms

Physical & Chemical Features	
Name	Thiourea Dioxide
Byname	Formamidine Sulfinic Acid
Appearance & Odor	White Crystal, odorless
Molecular Formula	(NH <sub>2</sub> ) <sub>2</sub> CSO <sub>2</sub>
Molecular Weight	108.12
Melting Point	126℃
PH	4 (1% Solution)
CAS NO.	1758-73-2 or 4198-44-0
Dangerous Goods Class	4.2
Specific Gravity	1.68
Specifications	
Purity (%)	≥99%

Address:At the Middle of Huanghe Road, Puyang City, Henan Province, China.Post: 457000Tel: +86-393-6681288, 4636771, 4637001Fax: +86-393-4637731, 6681266Website: ① www.hongyechem.com② www.hongyechemical.com

≤0.1%

E-mail: 1) hnhy@hongyechem.com

Thiourea (%)

2 hongyechem@hongyechem.com



# Henan Hongye Chemical Co., Ltd.

#### PRODUCT INFORMATION SHEET<sup>TO</sup>

The world leading professional manufacturer and exporter of Thiourea Dioxide and bleaching agent FAS!

Moisture (%)	≤0.05%	
Iron (Fe) (%)	≤10PPM	
Sulphate (%)	≤0.17%	
Packing		
500kg and 1000kg container bags	25kg or 50kg plastic bags	
100kg or 160kg drums	25kg kraft paper compound plastic bags	
50kg fiber drums	Packing according to the buyer's request	

# IV. Storage Points for Attention

Store in a cool (below 30 °C), dry, well ventilated area away from all source of ignition and out of direct sunlight. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Protect from moisture. Do not store near combustible materials. Keep containers well sealed, seal only with original vent cap. Ensure pressure relief and adequate ventilation. Store separately from organics and reducing materials. Avoid contamination which may lead to decomposition.

## V. Usage Points for Attention

Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area. Prevent contact with combustible or organic materials. Label containers and keep them tightly closed when not in use. Wash thoroughly after handling.

#### VI. First-aid Measures

- ♀ Inhalation- Remove affected person to fresh air. Do not use mouth-to mouth resuscitation. Seek medical attention if effects persist.
- ♀Eye contact-Flush eyes with running water for at least 15 minutes with eyelids held open. Seek specialist advice.
- ♀Skin contact-Wash affected skin with soap and mild detergent and large amounts of water
- ♀Ingestion- Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen.
- PDo not use mouth-to-mouth resuscitation. Seek medical service immediately.

#### **VII. Shipping Information**

♀ Proper Shipping Name: Thiourea Dioxide

우UN Number: UN3341

2

Address: At the Middle of Huanghe Road, Puyang City, Henan Province, China. Post: 457000 Tel: +86-393-6681288, 4636771, 4637001 Fax: +86-393-4637731, 6681266 Website: ① www.hongyechem.com ② www.hongyechemical.com

E-mail: 1) hnhy@hongyechem.com

2 hongyechem@hongyechem.com



# Henan Hongye Chemical Co., Ltd.

# PRODUCT INFORMATION SHEET™

The world leading professional manufacturer and exporter of Thiourea Dioxide and bleaching agent FAS!

♀Hazard Class: 4.2

♀Labels: 4.2(Flammable Solid)

Packing Group: II

■ Please read the MSDS for this chemical before using!



3

Address:At the Middle of Huanghe Road, Puyang City, Henan Province, China.Post: 457000Tel: +86-393-6681288, 4636771, 4637001Fax: +86-393-4637731, 6681266Website: ① www.hongyechem.com② www.hongyechemical.comE-mail: ① hnhy@hongyechem.com② hongyechem@hongyechem.com