

## SAFETY DATA SHEET

### SECTION 1 - COMPANY AND PRODUCT IDENTIFICATION

#### PRODUCT

**Product Name:** THIOUREA  
**Control Number:** 00299  
**Product Description:** Organosulfur Compound

#### COMPANY IDENTIFICATION

**Supplier:** Chemical Distribution Solutions  
1125 Oak St. Ste. 303  
Conway, AR 72032

**24 Hour Emergency Telephone:** (800) 424-9300 CHEMTREC  
**General Information:** (501) 978-1111

### SECTION 2- HAZARDS IDENTIFICATION

#### GHS Classification:

##### [ Health ]

Acute toxicity, Oral Category 4  
Carcinogenicity Category 2  
Reproductive toxicity Category 2

##### [ Environmental ]

Acute aquatic toxicity Category 2  
Chronic aquatic toxicity Category 2

##### [ Physical ]

#### GHS Label elements, including precautionary statements

#### Pictograms



**Signal Word:** Warning

#### Hazard statement(s)

H302 Harmful if swallowed.  
H351 Suspected of causing cancer.  
H361 Suspected of damaging fertility or the unborn child.  
H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statement(s)

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P391 Collect spillage.  
P501 Dispose of contents/ container to an approved waste disposal plant.

### SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%WT
Thiourea	62-56-6	100

**SECTION 4 - FIRST AID MEASURES****FIRST AID PROCEDURES:**

**Eye Contact:** Flush eyes with plenty of water for at least 15 minutes. Seek medical attention.

**Skin Contact:** Brush off excess material. Wash with soap and water. Seek medical attention if irritation develops.

**Inhalation:** If inhaled, remove to fresh air. Seek medical attention if symptoms appear.

**Ingestion:** First aid is not normally required; however, if swallowed and symptoms develop, seek medical attention.

**SECTION 5 - FIRE FIGHTING MEASURES**

**Suitable Extinguishing media:** Not combustible. Use DRY chemical powder, water spray, fog or foam. Do not use water jet.

**Hazardous combustion products:** Oxides of carbon and nitrogen

**Fire Fighting Procedures:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Fight by whatever means is appropriate to the surrounding fire.

**Unusual Fire and Explosion Hazards:** This material is Non-Combustible.

**SECTION 6 - ACCIDENTAL RELEASE and DISPOSAL MEASURES**

**Spills:** Wear appropriate protective equipment, including respiratory protection, as conditions warrant. Prevent spilled material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways. This material will promote algae growth with may degrade water quality. Minimize dust generation. Sweep up and package appropriately for disposal.

**SECTION 7 - STORAGE AND HANDLING**

**Handling:** Do not ingest. Do not breathe dust. Wear suitable protective clothing. Wash hands thoroughly with soap and water after handling and before eating.

**Storage:** Keep container tightly closed. Avoid contamination of open containers. Keep container in a cool, well-ventilated area.

**SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Engineering Controls:** Provide explosion-proof ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below.

**Exposure Limits:** Thiourea                      5 mg/m<sup>3</sup> ACGIH; 10 mg/m<sup>3</sup> OSHA

**Personal Protective Equipment (PPE):**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

**Skin:** If prolonged or repeated skin contact is likely, wear appropriate protective gloves.

**Clothing:** Selection of protective clothing depends on work conditions, potential exposure conditions and may include gloves, boots, suits and other protective items.

**Respirators:** Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus.

## SAFETY DATA SHEET

### SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

**Flash Point:** Non-Combustible  
**Autoignition Temperature:** No available data  
**Boiling Point:** Decomposes at 270 °F  
**Melting Point/Freezing Point:** 347 °F  
**Vapor Pressure:** <1 mmHg  
**Vapor Density (Air-1):**  
**Odor/Appearance:** White crystal with slight ammonia odor.

**Flammability Limits:** N/A  
**Specific Gravity:** 1.406  
**Volatile %:** Nil  
**Evaporation Rate (Water=1):** No available data  
**pH:** No available data  
**Solubility in Water:** 9 g/l

### SECTION 10 - STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal use and temperature conditions.  
**Conditions to Avoid:** Keep away from moisture and water.  
**Incompatible Materials:** Strong oxidizing agents  
**Hazardous Polymerization:** Will not occur.

### SECTION 11 - TOXICOLOGICAL INFORMATION

**Signs and Symptoms of Overexposure:**  
**Skin :** May cause skin irritation from drying.  
**Eyes:** May cause mild eye irritation from mechanical abrasion.  
**Inhalation:** Urea dust may cause mild irritation of the nose, throat and respiratory tract.  
**Ingestion:** No harmful effects report by ingestion. Swallowing may cause irritation of the digestive tract.

**Acute oral toxicity:**  
LD50 rat: 1,750 mg/kg  
**Acute inhalation toxicity:**  
LD50 rat: 170 mg/m<sup>3</sup>  
**Acute dermal toxicity:**  
LD50 rabbit: >2,800mg/kg

### SECTION 12 - ECOLOGICAL INFORMATION

Toxicity to fish LC50 - Danio rerio (zebra fish) - 10.000 mg/l - 96.0 h  
**Persistence and degradability:** Biodegradability Biotic/Aerobic - Exposure time 31 d  
Result: < 1 % - Not readily biodegradable.  
**Bioaccumulative potential:** No data available  
**Mobility in soil:** No data available

### SECTION 13 - DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

## SAFETY DATA SHEET

### SECTION 14 · TRANSPORTATION

#### U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):

**Proper Shipping Name:** Solid Organic n.o.s. (Thiourea)  
**Hazard Class:** 6.1  
**UN Number:** 2811  
**Packaging Group:** 3

### SECTION 15 · REGULATORY INFORMATION

#### US FEDERAL REGULATIONS

##### Comprehensive Environmental Response and Liability Act (CERCLA)

This material is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

**SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. The reportable quantity (RQ) for this material is 10 pounds. If appropriate, immediately report to the National Response Center (800/424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies.

**Toxic Substance Control Act (TSCA):** All components of this product are listed on the TSCA inventory list.

##### SARA Section 311/312 (40 CFR 370) Hazard Categories:

Acute Health Hazard, Chronic Health Hazard

**SARA Section 313 (40 CFR 372) Hazard Categories:** SARA 313: The following components are subject to reporting levels established by SARA Title III, Section 313:

Thiourea

**Clean Water Act:** This product contains Thiourea a chemical listed as Hazardous under the CWA.

**Clean Air Act:** This product contains no chemicals that are listed as Hazardous under the CAA.

**California Prop 65:** This product contains Thiourea a chemical known by the State of California to cause cancer, birth defects or other reproductive harm.

### SECTION 16 · OTHER INFORMATION

**SDS Revision Date:** June 2015

**National Fire Protection Association (NFPA) Ratings:** This information is intended solely for the use of individuals trained in the NFPA system.

**Health:** 2  
**Flammability:** 0  
**Reactivity:** 0

The data in this Safety Data Sheet relates to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as warranty or representation for which Chemical Distribution Solutions assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.