



Safety Data Sheet (SDS)

Revision / Review Date: 3/26/15

1. Chemical Product and Company Identification

Product Name:	ETU 75 Pellet
Distributed By:	HB Chemical 1665 Enterprise Parkway Twinsburg Oh 44087 Phone - 330-920-8023
SDS Prepared By (w Suppliers Input):	HB Chemical
Technical Name:	Ethylene Thiourea 75% on polymer
Chemical Name / Family:	Ethylene Thiourea
Molecular Formula:	Not available
Molecular Weight via GPC, Mn:	Not available
Product Use:	Dispersions
OSHA Status:	Not available
CAS No:	Mixture (96-45-7)

For emergency health, safety, and environmental information, calls 330-920-8023

For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300

2. Hazard(s) Identification

Warning:



Signs and Symptoms of Exposure: Eyes begin itching, reddening, tearing and burning.

Primary Routes of Entry: Skin and eyes.

Medical Conditions Generally Aggravated by Exposure: Not available.

Emergency overview: Avoid contact with skin and eyes. Do not ingest. Use with adequate ventilation. May be irritating to the skin, and skin absorption is possible. Animal tests show that this substance could possibly cause malformations in human babies. Women of childbearing age should avoid contact with this material. Talc applied to the pellets as a partitioning agent may cause respiratory irritation.

Eye Contact: Direct contact may cause painful stinging or burning, watering, itching, and/or reddening. Eye contact with vapors from this material can cause severe eye irritation.

<u>Skin Contact:</u>	Repeated or prolonged skin contact may cause skin irritation or skin sensitization effect in susceptible individuals. Birth defects have occurred in animals following skin absorption of ethylene thiourea.
<u>Ingestion:</u>	Ingestion of ethylene thiourea may cause metallic taste followed by vomiting, diarrhea and collapse. Ethylene thiourea crosses the placenta and may cause birth defects. This material is considered moderately toxic by ingestion.
<u>Inhalation:</u>	ETU-75 may have effects on the thyroid and liver.
<u>HMIS Hazard Ratings:</u>	Health- 2, Flammability - 1, Reactivity - 0, Protection-B
<u>HMIS limitation statement:</u>	The HMIS hazard ratings numbers are meant to give a quick indication of the relative hazards associated with the product. All of the information contained in the SDS should be consulted to assist with the safe handling of this material.
<u>Principal Hazardous Components:</u>	Proprietary Ethylene-Propylene Diene-Binder, Mixture, TLV (Units) ACGIH-TWA = 5 mg/M3

3. Composition / Information on Ingredients

Weight Percent / Typical	Component Identity	CAS Registry Number
75%	Ethylene Thiourea	96-45-7
25%	Proprietary Ethylene-Propylene Diene-Binder	Mixture*

* The Ethylene-Propylene Diene component of this product can consist of one, some or all of the following CAS #'s: 25034-71-3, 64742-53-6, 64742-01-4 & 64742-52-5.

4. First Aid Measures

<u>Inhalation:</u>	Move to fresh air. Seek medical attention if irritation develops or persists.
<u>Eyes:</u>	Flush with water for at least 15 minutes. Consult physician if irritation persists.
<u>Skin:</u>	Wash with plenty of soap and water. Consult physician if irritation persists.
<u>Ingestion:</u>	Give plenty of water only if victim is conscious. Induce vomiting. Consult physician immediately.

5. Fire-Fighting Measures

<u>Suitable Extinguishing Media:</u>	Water fog, carbon dioxide, dry chemicals, foam.
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<u>Special Fire Fighting Procedures:</u>	Fire fighter should wear self-contained breathing apparatus and protective clothing when fighting fires. Remove combustible products. Hose down gases/fumes/dust with water spray.
<u>Hazardous Combustion Products:</u>	Thermal decomposition produces toxic oxides of carbon, nitrogen and sulfur.
<u>Unusual fire and explosion hazards:</u>	Product may decompose at extreme temperatures and become combustible/ decomposition. Under lean oxygen conditions, carbon monoxide and irritating smoke may be produced.

6. Accidental Release Measures

<u>Steps to be taken in case material is spilled:</u>	Wear necessary protective equipment (protective clothing, gloves, and safety goggles) to prevent contact with skin or inhalation of dust. Remove all possible ignition sources. Pick up slabs or sweep up pellets and contaminated soil and place in dry recovery drums. Place in waste disposal containers. Avoid dust formation. Avoid contact with skin and eyes, and inhalation of dust.
<u>Environmental Disposal Information:</u>	Prevent access to drains, sewers, waterways, and soil.
<u>Waste Disposal:</u>	Dispose in accordance with federal, state and local regulations.

7. Handling and Storage

<u>Empty Containers:</u>	Not available.
<u>Precautions to be taken in handling:</u>	Avoid spilling, skin, and eye contact. Avoid handling that leads to dust formation. Provide appropriate exhaust and ventilation at machinery. Provide appropriate device to rinse eyes. Wash thoroughly after handling.
<u>Storage:</u>	Store in cool, dry location away from all sources of heat, sparks and open flames. Keep containers closed to prevent contamination. Keep away from oxidizers and strong acids.

8. Exposure Controls / Personal Protection

<u>Exposure Controls:</u>	Not available.
<u>Respiratory Protection:</u>	Use efficient dust mask.
<u>Ventilation:</u>	Adequate mechanical ventilation is recommended.
<u>Hand protection:</u>	Impervious rubber gloves.
<u>Eye Protection:</u>	Safety glasses.

<u>Skin and Body Protection:</u>	Wear impervious clothing.
<u>Other Precautions:</u>	Wash with soap and water before eating, drinking or using toilet facilities. Launder contaminated clothing before reuse.
<u>Decontamination Facilities:</u>	Eye bath, washing facilities (sinks / showers).

9. Physical and Chemical Properties

<u>Physical Form:</u>	Rubber Pellets
<u>Appearance & Odor:</u>	Off White/Slight Odor
<u>Specific Gravity:</u>	Approx. 1.03 to 1.25 at 25°C.
<u>Softening Point, R&B:</u>	Not available.
<u>Solubility in Water:</u>	Slight
<u>Flash Point, TAG CC F:</u>	300°F
<u>Percent Volatiles (by weight):</u>	Not available.
<u>Evaporation Rate (Water ~ 1):</u>	Not available.
<u>Vapor Pressure (mm Hg):</u>	Not available.
<u>Vapor Density (Air ~ 1):</u>	Not available.
<u>Boiling Point (°F) Initial:</u>	Not available.
<u>Auto ignition Temperature, °C:</u>	Not available.
<u>Flammable Limits, %(V):</u>	Not available.

10. Stability and Reactivity

<u>Stability:</u>	This product is stable under normal conditions.
<u>Incompatibility (Materials to Avoid):</u>	Strong oxidizers, strong acids.
<u>Conditions to Avoid:</u>	Excessive temperatures, contamination, moisture.
<u>Hazardous Polymerization:</u>	Hazardous polymerization will not occur.
<u>Hazardous Decomposition product:</u>	Sulfur, nitrogen, and carbon oxides, nitrogen amines, carbon disulfide, and toxic fumes.

11. Toxicological Information

Ethylene Thiourea is listed as a carcinogen or potential carcinogen by NTP, IARC, or OSHA.

<u>Carcinogenicity:</u>	Ethylene thiourea as classified carcinogenic by IARC: group 3 (limited evidence of carcinogenicity in laboratory animals and no human data).
<u>OSHA Permissible Exposure Limit:</u>	Not available.
<u>ACGIH Threshold Limit Value:</u>	Proprietary Ethylene-Propylene Diene-Binder, Mixture, TLV (Units) ACGIH-TWA 5 mg/M3
<u>Acute Oral:</u>	Rat LD50: >265mg/kg

12. Ecological Information

This material has not been evaluated for environmental effects.

13. Disposal Considerations

Reclaim or dispose of material in accordance with all applicable local, state, and federal regulations.

14. Transport Information

<u>D.O.T. Shipping Name:</u>	Environmentally Hazardous Substances, Solid, N.O.S., 9, UN3077, PG III, (ethylene thiourea mixture).
<u>Air - ICAO (international Civil Aviation Organization):</u>	Not available.
<u>Sea - IMDG (International Maritime Dangerous Goods):</u>	Not regulated.

15. Regulatory Information

All components of this material are on the TSCA Inventory.

All components of this material are on the Canadian DSL.

<u>SARA 313:</u>	This product contains the following toxic CHEMICALS subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40CFR 372: Ethylene Thiourea, CAS No. 96-45-7
<u>SARA Section 302:</u>	None.
<u>SARA 311/312:</u>	Immediate Health Hazard.
<u>California Prop. 65 Components:</u>	This product contains chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other Information

The above information has been compiled from what we believe to be credible sources. To our knowledge the information is accurate and reliable, however, it is not guaranteed. Any recommendations issued by HB Chemical personnel or literature is derived from experience and by no means should be taken as fact or construed as a recommendation to violate of any law, regulation or patent. It is the users responsibility to determine the suitability of any HB supplied material in their application. The individual conditions of each customer are well outside of our control and we cannot be held liable for its functionality and use. Please contact our office should you need specific information beyond what is supplied above. As with all Chemical usage safety precautions beyond the stated are highly recommended.