



MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

MANUFACTURER Flow Polymers, Inc.
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PREPARED BY: LUH
DATE REVISED: 1/05
SUPERSEDES: 7/03

PRODUCT NAME AND SYNONYMS: FlowSperse® FP(ETU)-75
CHEMICAL NAME: Ethylene Thiourea – Elastomeric Mixture
CAS#: Mixture
FORMULA: Mixture
HMIS RATING: Health 2
Flammability 1
Reactivity 0

2. HAZARDOUS INGREDIENTS

Chemical	CAS Number	%Wt	TLV (units) ACGIH-TWA
Ethylene Thiourea	96-45-7	75	Not Established
Proprietary Ethylene-Propylene Diene-Binder	Mixture*	25	5 mg/M ³

* 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.

3. PHYSICAL AND CHEMICAL DATA

APPEARANCE: Yellow/green elastomeric slabs or pellets, no odor
SPECIFIC GRAVITY: 1.25 (cal.)
WATER SOLUBILITY: Slight

4. FIRE PROTECTION

FLASH POINT (°F): >300 COC
EXTINGUISHING MEDIA: Water fog, carbon dioxide, dry chemicals, foam.
SPECIAL FIREFIGHTING PROCEDURES: Fire fighter should wear self-contained breathing apparatus and protective clothing when fighting fires.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Product may decompose at extreme temperatures and become combustible. Product may decompose at extreme temperatures and become combustible.

5. REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: Excessive temperatures, contamination, moisture.
INCOMPATIBLE MATERIALS: Strong oxidizers, strong acids

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5. REACTIVITY DATA (cont'd)

DECOMPOSITION PRODUCTS: Oxides of carbon, nitrogen and sulfur.

POLYMERIZATION POTENTIAL: None.

6. HEALTH HAZARD INFORMATION

PRECAUTIONARY INFORMATION: Avoid contact with skin and eyes. Do not ingest. Use with adequate ventilation.

PRIMARY ROUTES OF ENTRY:

INHALATION: Unlikely at ambient temperatures.

SKIN ABSORPTION: Unlikely.

INGESTION: Unlikely

SKIN AND EYES: Yes

DANGER: Women of childbearing age should avoid contact with this material (NIOSH Current Intelligence Bulletin 22, Publication No. 78-144)

SKIN: Contact may cause irritation. Prolonged contact may cause possible sensitization in some. Birth defects have occurred in animals following skin absorption of ethylene thiourea.

EYE: Direct contact may cause painful stinging or burning, watering eyes.

INGESTION: Ingestion of ethylene thiourea may cause metallic taste followed by vomiting, diarrhea and collapse. Ethylene thiourea crosses the placenta and may cause birth defects.

CARCINOGENICITY: Ethylene thiourea as classified carcinogenic by IARC: group 3 (limited evidence of carcinogenicity in laboratory animals and no human data)

7. EMERGENCY FIRST AID PROCEDURES

SKIN: Wash with plenty of soap and water. Consult physician if irritation persists.

EYES: Irrigate with water for at least 15 mins. Consult physician if irritation persists.

INGESTION: Give plenty of water ONLY if victim is conscious. Induce vomiting. Consult physician immediately.

8. PRECAUTIONS FOR SAFE HANDLING AND STORAGE

Store in cool, dry location away from all sources of heat, sparks and open flames. Keep containers closed to prevent contamination. Avoid contact with skin and eyes. Wash thoroughly after handling.

9. SPILL AND LEAK PROCEDURE

WORKPLACE RELEASES: Do not flush into sewers. Remove all possible ignition sources. Pick up slabs or sweep up pellets. Place in waste disposal containers. Dispose in accordance with federal, state and local regulations.

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9. SPILL AND LEAK PROCEDURE (cont'd)

SOIL RELEASE: Do not flush into sewers. Pick up slabs or sweep up pellets and contaminated soil and place in dry recovery drums. Dispose of as laws and regulations allow.

WATER RELEASE: Notification of the proper governing agency may be appropriate.

AIR RELEASE: Unlikely to be released to the air because of low volatility.

10. SPECIAL PROTECTION INFORMATION

VENTILATION: Adequate mechanical ventilation is recommended.

RESPIRATORY PROTECTION: Typically not required under normal use.

PROTECTIVE GLOVES: Impervious rubber gloves

EYE PROTECTION: Safety glasses

11. DOT HAZARD CLASS: Environmentally Hazardous Substances, Solid, N.O.S., 9, UN3077, PG III, (ethylene thiourea mixture)

12. TSCA STATUS: All components of this mixture are listed on the TSCA inventory.

13. TOXICOLOGICAL INFORMATION: No data at this time

14. ECOLOGICAL INFORMATION: No information at this time.

15. SECTION 313 NOTIFICATION:

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.

CAS#	CHEMICAL NAME	PERCENT BY WEIGHT
96-45-7	Ethylene Thiourea	75

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16. OTHER INFORMATION: contact the manufacturer regarding any questions or concerns about this material.

To the best of our knowledge, the information contained herein is accurate. However, neither Flow Polymers nor any of its affiliates assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material and whether there is any infringement of patent is the sole responsibility of the user. All chemicals may present unknown hazards and should be used with caution. Although certain hazards are described in the publication, we cannot guarantee that these are the only hazards which exist. Users of any chemical should satisfy themselves by independent investigation of current scientific and medical knowledge that the material can be used safely.