



THATCHER COMPANY MATERIAL SAFETY DATA SHEET
PRODUCT: T-FLOC 1410, 1417, 1419, 1420
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MSDS Date: July 22, 2002
Emergency Contact: 1-800-424-9300

SECTION I

PRODUCT NAME: T-FLOC 1410, 1417, 1419, 1420
CHEMICAL NAME: Mixture
CHEMICAL FAMILY: Cationic Homopolymer Solution
DOT SHIPPING INFORMATION: Not DOT regulated.

SECTION II - HAZARDOUS INGREDIENTS

This material contains no ingredients which are known by Thatcher Company to be hazardous unless listed below.

HAZARDOUS MATERIAL	CAS NUMBER	w/w %	EXPOSURE LIMITS IN AIR
none	-----	-----	-----

The specific identity of some ingredients may be withheld for confidential business purposes. However, all known potential health effects from exposure to these ingredients are being addressed.

SECTION III - PHYSICAL DATA

BOILING POINT (F): >212 **SPECIFIC GRAVITY:** 1410: 1.03, 1417: 1.01, 1419: 1.03, 1420: 1.08

VAPOR PRESSURE (mm Hg): Similar to water.

% VOLATILE, BY VOLUME: About 1410: 80%, 1417: 90%, 1419: 80%, 1420: 60%

VAPOR DENSITY (air = 1): Similar to water.

EVAPORATION RATE: N/A

SOLUBILITY IN WATER: Complete

pH: 5.0 – 7.0

APPEARANCE AND ODOR: Viscous clear, colorless to pale yellow liquid with mild odor.

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT: Nonflammable: Aqueous solution.

FLAMMABLE LIMITS: Lel: N/A Uel: N/A

EXTINGUISHING MEDIA: N/A

SPECIAL FIRE-FIGHTING PROCEDURES: N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS: May release oxides of nitrogen under conditions of fire.



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SECTION V - REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS OR MATERIALS TO AVOID: Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Nitrogen.

SECTION VI - HEALTH HAZARD DATA

Carcinogenic Listing:

NTP: No ingredients listed in this section.

IARC MONOGRAPHS: No ingredients listed in this section.

OSHA 29 CFR 1910: No ingredients listed in this section

ENTRY ROUTES & EFFECTS OF OVEREXPOSURE:

Contact: May cause irritation to the eyes.

Ingestion: The product is practically non-toxic through ingestion. May cause irritation to the eyes.

STATEMENT OF PRACTICAL TREATMENT:

Contact: For contact with eyes, flush thoroughly with cool water for at least 15 minutes. If irritation continues, get medical attention.

SECTION VII - SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS: Wash thoroughly after handling. Keep container closed.

STEPS TO BE TAKEN IF MATERIAL SPILLS OR LEAKS:

Dispose of in accordance with local, state and federal regulations. Dike the area to contain much spilled material as possible. Remove any remaining material by absorbing with suitable absorbing material and place in a sealed metal container for disposal. Hose spill area well since product can make floors slippery.

WASTE DISPOSAL METHOD:

Dispose of in a landfill or incinerate in accordance with local, state and federal regulations.

OTHER PRECAUTIONS: None.



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SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not required.

VENTILATION: Normal.

EYE PROTECTION: Not required.

SKIN PROTECTION: Not required.

OTHER PROTECTIVE EQUIPMENT: Not required.

ACGIH = American Conference of Governmental Industrial Hygienists

CL = Ceiling Level

IARC = International Agency for Research on Cancer: Monographs

OSHA = Occupational Safety and Health Administration

N/A = Not Applicable

NTP = National Toxicology Program: Annual Report on Carcinogens

PEL = Permissible Exposure Level (OSHA)

TLV = Threshold Limit Value (ACGIH)

TWA = Time Weighted Average over 8 Hours

STEL = Short Term Exposure Limit (ACGIH)

ND = Not Determined

This information is, to the best of our knowledge, accurate but may not be complete. THATCHER COMPANY furnishes this information in good faith, but without warranty, representation or guarantee of its accuracy, completeness, or reliability.