

NPE9.0



**THATCHER COMPANY MATERIAL SAFETY DATA SHEET**  
**PRODUCT: SURFACTANT TF**  
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MSDS Date: March 1, 2010  
 Emergency Contact: 1-800-424-9300

**SECTION I**

**PRODUCT NAME:** Surfactant TF

**DOT SHIPPING INFORMATION:** Combustible Liquid, n.o.s.  
 (DOT only required on (Contains Isopropanol), 3,  
 bulk packagings) NA 1993, PGIII

**SECTION II - INGREDIENTS**

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

MATERIAL	CAS NUMBER	w/w %	EXPOSURE LIMITS IN AIR
Isopropanol	67-63-0	12 - 13	TLV / PEL = 400 ppm (TWA)

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 - HEALTH HAZARD DATA**

**NEPA HAZARDOUS RATING:**

Health = 1  
 Flammability = 3  
 Reactivity = 0

**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:** Can cause severe irritation to eyes and skin.

**Ingestion:** Can cause nausea, dizziness, irritation and vomiting if taken internally.

**Inhalation:** High vapor concentrations or prolonged exposure can result in headache, dizziness, nausea and vomiting.

**EMERGENCY & FIRST AID PROCEDURES:**

**Contact:** Flush skin thoroughly with water and then wash with soap and water. For eyes, flush for at least 15 minutes with cool water and get medical attention.

**Ingestion:** If conscious, give two glasses of milk or water and call a physician immediately.

**Inhalation:** Get person to fresh air. For difficulty in breathing, get medical attention.



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**SECTION IV - FIRE AND EXPLOSION DATA**

**FLASH POINT:** 85°F

**FLAMMABLE LIMITS:**

LEL: (IPA) 2.0% (air)

UEL: (IPA) 12.0% (air)

**EXTINGUISHING MEDIA:**

Carbon dioxide, dry chemical or "alcohol" type foam. Use water fog on large fires.

**SPECIAL FIRE-FIGHTING PROCEDURES:**

Water can cause foaming and gelling of this product.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Corrosive and poisonous sulfur dioxide, sulfur trioxide and nitrogen oxides may be given off as fumes during combustion. Wear NIOSH approved self-contained breathing apparatus when fighting fires in an enclosed area.

**SECTION V - SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:**

Not required with good ventilation. Use if necessary.

**VENTILATION:** Use adequate ventilation.

**EYE PROTECTION:** Goggles.

**SKIN PROTECTION:** Rubber gloves.

**OTHER PROTECTIVE EQUIPMENT:**

As needed to prevent skin and eye contact with th

**SECTION VI - SPECIAL PRECAUTIONS**

**HANDLING AND STORAGE PRECAUTIONS:**

Store in a cool, dry area away from heat, sparks and open flame. Keep covered when not in use.

**SECTION VII - PHYSICAL DATA**

**BOILING POINT:** >212°F

**SPECIFIC GRAVITY:** 1.02

**VAPOR PRESSURE (mm Hg):** abt. 30 mm

**% VOLATILE, BY VOLUME:** abt 40 %

**VAPOR DENSITY (mm Hg):** ND

**EVAPORATION RATE:** ND

**SOLUBILITY IN WATER:** Complete

**APPEARANCE AND ODOR:** Clear, amber-colored liquid with mild odor.



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**SECTION VIII - REACTIVITY DATA**

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS OR MATERIALS TO AVOID:**

Keep away from heat, sparks and open flames. Reacts with strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Carbon monoxide and oxides of sulfur and nitrogen may be given off during combustion.

**SECTION IX - SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IF MATERIAL SPILLS OR LEAKS:**

CAUTION: Spilled material is very slippery. Remove all sources of ignition immediately. Wear proper safety equipment. Dike large spills and recover into drums. Absorb residue, or small spills, with inert material and scoop into drums. Do not allow material to enter sewer.

**WASTE DISPOSAL METHOD:**

Incinerate or bury in landfill. Comply with all local, state and federal regulations.

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.