Material Safety Data Sheet

According to 91/155/EEC and OSHA Hazard Communication Std. 29CFR1910.1200

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

Commercial Product Name: CAMCO POLY-TET STAIN - # 2000
Company: CAMBRIDGE DIAGNOSTIC PRODUCTS, INC. (954) 971-4040
6880 NW 17th Avenue, Fort Lauderdale, FL 33309
Emergency Telephone Number: CHEM-TREC 1-800-424-9300
Outside USA & Canada 1-703-527-3887

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS:

Ingredient	CAS #	% Weight	Exposure Limits
Methanol	67-56-1	84-94%	200 PPM OSHA PEL
Thiourea	62-56-6	< 1 %	Not Available

3. HAZARDS IDENTIFICATION:

Emergency Overview:
USA: Flammable EU: Highly Flammable. Toxic (T.F.).
POISON! DANGER! VAPOR HARMFUL. MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. CANNOT BE MADE NONPOISONOUS. FLAMMABLE LIQUID AND VAPOR CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYTEM AND LIVER.
No health hazards are expected or reported when used as directed by medical laboratories in small volume. Level of exposure in laboratory use is usually very small.
Skin: Defatting may cause dermatitis. Avoid contact due to possibility of skin absorption. Upon contact, wash affected area immediately for 10-15 minutes with soap and water.
Eye Contact: Irritant, causes corneal damage.
Inhalation: Unexpected or prolonged overexposure may cause dizziness, headache and narcotic effect. Once absorbed into the body, it is very slowly eliminated. In addition, prolonged overexposure is toxic to the nervous system, especially the optic nerve.
Ingestion: Toxic, can cause blindness, may be fatal, usual lethal dose 100 – 125 mL.
Aggravation of Pre-existing Conditions: Persons with pre-existing skin disorders or eye problems or impaired liver or kidney function may be more susceptible to the effects of the substance.

HMIS Rating: Health – 2	**Flammability – 3**	**Reactivity - 0**
NFPA Rating: Health – 1	**Flammability – 3**	**Reactivity - 0**

4. FIRST AID MEASURES:

Skin Contact: Wash off with soap and water for 10-15 minutes, remove contaminated clothing and apply emollient cream. In case any irritation persists, get medical attention.
Eye Contact: Irrigate with water or eyewash for 10-15 minutes, Get medical attention.
Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion: Rinse mouth thoroughly with water. Get medical attention immediately. Note to medical personnel: INDUCE VOMITTING IMMEDIATELY. Never give anything by mouth to an unconscious person.

5. MEASURES FOR FIRE FIGHTING:

Flash Point (Typical): 52°F (11°C) TAG CC
Autoignition Temperature: 867°F (464°C)
Upper Flammable Limit: UEL: 36.5 LEL: 6.0 Flammable liquid and vapor!
Firefighting Procedures: Preferred extinguishing media: CO_2 - dry chemical foam (Class B). Do not inhale fumes or smoke. Wear full protective clothing and NIOSH approved self-contained breathing apparatus. (Water may be ineffective.)
Unusual Fire and Explosion: Above flashpoint, vapor/air mixtures are explosive. Fumes are highly toxic and represent a fire hazard when exposed to spark, flame and static electrical discharge.
Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Use water spray to blanket fire, cool fire exposed containers, and to flush non-ignited spills or vapors away from fire. Vapors can flow along surfaces to distant ignition source and flash back.

6. ACCIDENTAL RELEASE MEASURES:

Procedure to follow in case of leak or spill: Evacuate area; shut off all sources of ignition and sources of static electricity.
Personal Precaution: Wear self contained breathing apparatus, rubber boots and gloves.
Method of clean up: Absorb with suitable commercial absorbent or dry lime, in case no absorbent is available, and there is a possible fire hazard, wash spillage to sewer with plenty of water.

7. HANDLING AND STORAGE:

User exposure: Do not breathe vapor. Avoid contact with eyes, skin and clothing. Always avoid prolonged or repeated exposure.
Store in cool, dry, well-ventilated location in a closed container, away from any source of heat, sparks, flame, electrical and static-electrical discharges.
Storage temperature: Store in a cool, dry, well ventilated location. Preferably at controlled room temperature 50° -86° F (10° - 30°C). For large quantities, store in flammable safety cabinet.
Unsuitable Materials: Do not mix with any other chemical except methanol or water (if required).

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION: (This information is for small quantity laboratory use)

OSHA Permissible
Exposure Limits (O.E.L.): 200 ppm ceiling for 15 minutes, usually not applicable in laboratory conditions.
Ventilation Procedures: General, minimum rate. (Small quantity laboratory use)
Hand Protection: Thin polyethylene gloves
Eye Protection: Chemical goggles
Respiratory Protection: NIOSH approved personal respirator
Clothing: Lab coat
Work/Hygienic Practices: Wash thoroughly with soap and water after handling

9. TYPICAL PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Dark blue, low viscosity liquid.

Solubility in water: Very good, however, water may cause belated partial precipitation.
Odor: Characteristic
Specific Gravity: 0.770 – 0.870
Boiling Point: 146° - 148° F (64° – 65°C)
Evaporation Rate: (n-Butyl Acetate = 1) 5.9
Vapor Pressure: < 1 atm @ 20° C
% Volatile by Volume: Trade secret
Vapor Density: 1.1 at boiling point.
Percent Solids (w/w): Trade secret.

10. STABILITY AND REACTIVITY:

Stability: 2 ½ years from date of manufacture.
Incompatibility: Strong oxidizing agents such as nitrates, perchlorates or sulfuric acid. Will attack some forms of plastics, rubber and coatings. May react with metallic aluminum and generate hydrogen gas.
Hazardous Polymerization: Will not occur.
Hazardous Decomposition of Product: Heat and fire causes toxic fumes.
May form carbon dioxide, carbon monoxide and formaldehyde when heated to decomposition.
Conditions to Avoid: Heat, flames, ignition sources and incompatibles.

11. TOXICOLOGICAL INFORMATION:

Skin: Overexposure causes excessive dryness, defatting and may cause dermatitis. Irritation data, standard Draize test: skin, rabbit: 20mg/24hr. Toxic if absorbed.
Eyes: Causes corneal damage. (Moderate; eye, rabbit: 100mg/24hr).
Respiratory: Prolonged overexposure causes dizziness, headache and narcotic effect. Toxic if inhaled.
Oral LD50: 5,628 mg/kg (rat)
Inhalation LC 50: 64,000 ppm/4H-rat
Chronic Toxicity: None **Carcinogenicity:** None
Mutanogenicity: None **IARC Category:** None
Occupational Exposure: None expected when used as a laboratory reagent.
Other: Causes blindness and renal dysfunction. **Ingestion may be fatal.**

12. ECOLOGICAL INFORMATION:

Degradability: No data available on product itself.
Acute Fish Toxicity: Goldfish (fresh water) – 250ppm/11H, death.
Environmental Toxicity: Slightly toxic to aquatic life.
Substance: Methanol 84-94%
Waste Disposal Number: U154 (Ignitable)

13. DISPOSAL CONSIDERATIONS:

Product: Obsolete material may be incinerated according to local, state or federal regulations. Do not flush material to sewer.
Packaging, Empty: Containers of this material may be hazardous when empty, since they may retain product residues. Observe all warnings and precautions listed for this product.

14. TRANSPORT INFORMATION:

DOT Shipping name and labeling: Ground Transportation: Quart or smaller, consumer commodity – ORM-D, Gallon or Larger, Methanol Solution / 3 / UN1230 / PGII – Flammable

Proper Shipping Name: Methanol Solution- **UN**1230
Hazard Class: 3 **Packing Group:** II
Hazard Label: Flammable
International (Water, I.M.O.)
Proper Shipping Name: Methanol Solution
Hazard Class: 3, 6.1
Hazard Label: Flammable
UN: **UN**1230
Packing Group: II

15. REGULATORY INFORMATION:

S.A.R.A. Codes 311 & 312: Acute, flammable, chronic, fire = YES
Pressure, reactivity = NO
S.A.R.A. Title III section 302: RQ – None TPQ – None
CERCLA: 5,000 pounds RCRA = U154
S.A.R.A. Title III section 313: Subject to reporting rules of section 313, SARA Title III and 40 CFR Part 373
TSCA Inventory Status: CAS # 67-56-1, Methanol (base solvent) is listed in the TSCA inventory.
Clean Air Act: Listed as a hazardous air pollutant. Does not contain any Class 1 or 2 ozone depletors.
Poison Schedule: S6
European/International Regulations: Hazard Symbols: T F.
Risk Phrases: R 11, highly flammable
Safety Phrases: 11, 23/25, S24/25

16. FURTHER DATA:

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