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## MATERIAL SAFETY DATA SHEET

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: TANGO MORDANT

**Catalog number:** 852

**General use:** Mordant solution.

**Product description:** Aqueous solution of iron alum.

**Manufacturer**

Anatech Ltd.  
1020 Harts Lake Road  
Battle Creek, MI 49037  
USA

**Emergency contact information**

Health:	Anatech Ltd.	800-262-8324	8 am - 5 pm ET, M-F
Transportation:	CHEMTREC	800-424-9300	24 hours

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### 2. COMPOSITION AND INFORMATION ON INGREDIENTS

(Note: Percentage composition is withheld as a trade secret.)

**Component**

Ferric alum

**CAS #**

7783-83-7

**Exposure limits**

Not established.

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### 3. HAZARDS IDENTIFICATION

**Emergency overview**

Gold liquid.

Not likely to pose a hazard under normal conditions of use.

**Potential health effects**

(Human health effects only.)

**Primary route(s) of exposure:** Eyes.

**Inhalation:** Nonhazardous.

**Eye:** Contact of liquid may be mildly irritating.

**Skin:** Effects are unknown but anticipated to be slight.

**Ingestion:** Effects are unknown but anticipated to be slight.

**Chronic effects:** None known.

**Signs and symptoms:** Eyes may water and become reddened.

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#### 4. FIRST AID MEASURES

**Inhalation:** None needed.

**Eye:** Flush eyes for at least 15 minutes in an eyewash station. If symptoms persist after washing, consult a physician.

**Skin:** Remove contaminated clothing, including footwear; wash before reuse or discard. For minor exposure, wash affected area with water and mild soap, rinsing thoroughly; apply a good quality skin lotion. In cases of prolonged, repeated or extensive exposure, rinse affected area or entire body for at least 15 minutes. For severe conditions, consult a physician.

**Ingestion:** Call a poison control center immediately. If victim is conscious, have him/her drink several glasses of water to dilute the solution. Induce vomiting only upon the advice of a physician or poison control authority.

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#### 5. FIRE FIGHTING MEASURES

##### Flammable properties

**Flash point:** Not applicable.

**Flammable limit:** Not applicable.

**Autoignition temperature:** Not determined.

**Flammability classification:** Not applicable.

**Flame propagation:** None.

**Hazardous products of combustion:** Carbon oxides.

**Extinguishing media:** ABC rated portable fire extinguishers should be used. Professional fire fighters may use water spray, dry chemical or carbon dioxide.

**Fire fighting instructions:** No special precautions are necessary.

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#### 6. ACCIDENTAL RELEASE MEASURES

Tango Mordant is not a hazardous material. Use a damp sponge or mop to remove spilled liquid. Discard absorbents and other contaminated solids in a trash receptacle.

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#### 7. HANDLING AND STORAGE

**Handling:** No special precautions required.

**Storage:** Store at room temperature.

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#### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Engineering controls:** Good general room ventilation is adequate.

##### Personal protective equipment

**Respiratory protection:** None needed.

**Skin protection:** Anatech Ltd. recommends nitrile gloves. Do not use latex surgical gloves for protection.

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION (continued)

An eyewash station and safety shower must be nearby, preferably in the same room, no more than 10 seconds away.

**Eye protection:** Use splash-proof goggles. Do not use safety glasses. An eyewash station and safety shower must be nearby, preferably in the same room, no more than 10 seconds away.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Gold solution.

**Odor:** None.

**Physical state:** Liquid.

**pH:** approximately 2.35.

**Vapor pressure:** Not determined.

**Vapor density:** Not determined.

**Boiling point:** Not determined.

**Freezing point:** Not determined.

**Solubility in water:** Complete.

**Specific gravity:** 1.00 at 25°C.

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## 10. STABILITY AND REACTIVITY

**Chemical stability:** Stable.

**Conditions to avoid:** None.

**Incompatibility with other materials:** None.

**Hazardous decomposition products:** None.

**Hazardous polymerization:** None.

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## 11. TOXICOLOGICAL INFORMATION

No toxicological information is known for this solution. The following data is from studies using ferric alum salt.

**Acute effects:** A primary irritant. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**Chronic effects/carcinogenicity:** Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness. There is no evidence of carcinogenicity.

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## 12. ECOLOGICAL INFORMATION

No environmental information is known.

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## 13. DISPOSAL CONSIDERATIONS

Tango Mordant has no hazardous characteristics. Drain disposal is recommended with the permission of local wastewater treatment authorities.

Canadian disposal regulations generally parallel those in the United States.

Follow federal, state (provincial) and local regulations. Proper waste disposal is the generator's responsibility.

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## 14. TRANSPORTATION INFORMATION

**DOT (ground and air) and IATA:** Not regulated.

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## 15. REGULATORY INFORMATION

**OSHA (USA):** Tango Mordant is not a hazardous material.

**FDA (USA):** Tango Mordant is for in vitro diagnostic use as a general purpose reagent in histology.

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## 16. OTHER INFORMATION

**Label warnings:** Irritant. If swallowed, contact a physician.

**NFPA (National Fire Protection Association) Rating:**

**General note:** This rating is applicable only to safeguard the lives of individuals who may be concerned with fires occurring in an industrial plant or storage location. The ratings provide information to emergency personnel on whether to evacuate the area or how to perform control procedures. It is not descriptive of hazards under normal conditions of occupational use, and is even less applicable to anticipated laboratory-scale use.

**Health 0:** Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

**Flammability 0:** Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

**Instability 0:** Materials that are normally stable even under fire conditions.

sources which Anatech Ltd. believes are reliable. It is the user's responsibility to determine suitability of the product for his/her own use, and to assure proper use and disposal of it to protect the safety and health of employees and the protection of the environment.