

Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Catalog Numbers: SF8050-A, SF8050-B, SF8050-C, SF8050-D, SF8050-P, SF8050-Q, SF8050-G, SF8050-T

Product Identity: Softener Test Solution

Chemical Family: Not Applicable

Synonyms: Not Applicable

Recommended Use: Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331, (866) 632-1291
Emergency Contact Number (24hr): Chemtel (800) 255-3924

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Section 2 – Hazard Identification

Emergency Overview: Flammable. May irritate the respiratory system. May cause irritation to the eyes. Wash areas of contact with water. If ingested, give large quantity of water and induce vomiting and get medical assistance.

Appearance: Dark, Blue Liquid **Odor:** Alcohol

Target Organs: Central nervous system, Eyes, Skin, and Respiratory system.

Potential Health Effects/ Routes of Exposure:

Eyes: May cause burning and stinging irritation and possible damage to cornea and conjunctiva.

Skin: Results in cracking and burning which may lead to secondary infections and dermatitis.

Ingestion: May cause nausea, vomiting, cramps, and diarrhea.

Inhalation: May cause mild irritation of the mucous membrane and upper respiratory tract.

Chronic Effect / Carcinogenicity: Repeated ingestion of Triethanolamine has caused kidney and liver damage. None (IARC, NTP, OSHA)

Aggravated Medical Conditions No information available

These chemicals are considered hazardous by OSHA.

See section 11 for toxicological information. See section 12 for potential environmental effects.

Section 3 – Composition, Information on Ingredients

Triethanolamine, CAS# 102-71-6, <50% v/v

Ethanol, CAS# 64-17-5, <50% v/v

Eriochrome Black T, CAS# 1787-61-7, <0.04% w/v

Section 4 – First Aid

Eyes: Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.

Skin: Flush with water for 15 minutes. Get medical assistance if irritation develops.

Ingestion: Dilute with water or milk. Induce vomiting. Get medical assistance.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Notes to Physician Treat symptomatically.

Section 5 – Fire Fighting Measures

Flash Point: No information available. **Autoignition Temperature** No information available.

Explosion Limits Upper No data available **Lower** No data available

Extinguishing Media: Dry Chemical, water, foam, or carbon dioxide. Water can be used to keep fire-exposed containers cool

Unsuitable Extinguishing Media: No information available

Fire & Explosion Hazards: Vapors may explode if ignited in an enclosed area.

Fire Fighting Instructions / Equipment Poisonous gases are produced in fire. Cool container with water. Do not release runoff into sewers or waterways. Wear protective clothing. Use NIOSH-approved breathing equipment.

Hazardous Combustion Products: No information Available

Sensitivity to mechanical impact No information available.

Sensitivity to static discharge No information available.

Specific Hazards Arising from the Chemical: No information available

NFPA Rating: (estimated) Health: 2; Flammable: 2; Reactivity: 1

Section 6 – Accidental Release Measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Environmental Precautions Do not flush to sewer.

Methods for Containment and Clean Up Remove source from ignition. Contain spill. Do not flush to sewer. Absorb with inert material and place in chemical waste container. Ventilate spill area. Have extinguishing agent available in case of fire. Use non-sparking equipment. Always obey local regulations.

Section 7 – Handling and Storage

Handling: Wash hands after handling. Avoid contact with skin and eyes.

Storage: Store in secure flammable storage area away from ignition sources. Protect from freezing and physical damage. May be hazardous since they retain product residue.

Section 8 – Exposure Controls, Personal Protection

Triethanolamine, CAS# 102-71-6, ACGIH TLV: 5mg/m³, OSHA PEL: NA

Ethanol, CAS# 64-17-5, ACGIH TLV: NA, OSHA PEL: NA

Eriochrome Black T, CAS# 1787-61-7, ACGIH TLV: NA, OSHA PEL: NA

Engineering Measures/ General Hygiene: Local/general exhaust is recommended. Ensure eyewash and safety showers are available.

Personal Protection Equipment: Skin Protection: Chemical resistant gloves.

Eye/Face Protection: Safety Glasses or goggles. **Respiratory Protection:** Normal ventilation is adequate.

Section 9 – Physical and Chemical Properties

Appearance/Physical State: Dark, Blue Liquid

Odor: Alcohol

Boiling Point: No Information Available

Melting Point: No Information Available

Vapor Density: No Information Available

Evaporation Rate: No Information Available

pH: Not Available

Flammability: No Information Available

Solubility: No Information Available available

Relative Density: No Information Available

% Volatility: No Information Available

Specific Gravity: Not Applicable

Vapor Pressure: Not Applicable

Flash Point: Not Applicable

Coefficient of water/oil distribution: Not Available

Odor Threshold: Not Available

Decomposition Temperature: No Information Available

Partition Coefficient n-octanol/water: No data

Molecular Weight: Not Applicable

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

Incompatible Materials: Oxidizers, aldehydes, heat, sparks, open flame. Will attack some forms of rubber, plastics, and coatings. May react with metallic aluminum and generate hydrogen gas.

Conditions to Avoid: None known

Hazardous Decomposition Products: Acrid and irritating fumes, including toxic oxides of carbon and nitrogen when heated to combustion.

Hazardous Polymerization: Does not occur
Hazardous Reactions: None under normal processing.

Section 11 – Toxicological Information

Routes of Exposure/Symptoms/Corrosiveness – See Section 2
LD50 orl-rat: 17590 mg/kg (Eriochrome Black T), 4.92mL/kg (Triethanolamine)
LC50 inhalation-rat: Not Available
Irritation: No Information Available
Toxicologically Synergistic: No Information Available
Chronic Exposure
Carcinogenicity No Information Available
Sensitization No information available.
Mutagenic Effects No information available.
Reproductive Effects No information available.
Developmental Effects (Immediate/Delayed) No information available.
Teratogenicity No information available.
Other Adverse Effects No Information Available.
Endocrine Disruptor Information No information available

Section 12 – Ecological Information

Ecotoxicity: Not Available.
Persistence and Degradability: No Information Available **Mobility:** No Information Available
Bioaccumulation/ Accumulation: No Information Available

Section 13 – Disposal Considerations

Waste Disposal/Waste Disposal of Packaging: Do not flush to sewer. Absorb with inert material and place in chemical waste container for proper disposal in a disposable facility for incineration in a chemical incinerator. Ventilate spill area. Have extinguishing agent available in case of fire. Eliminate all sources of ignition. Use non-sparking equipment.
All chemical waster generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

Section 14 – Transport Information

DOT – UN1993, Flammable Liquid, N.O.S., (Ethanol Solution), 3,

Section 15 – Regulatory Information (not meant to be all inclusive)

OSHA Status: These chemicals are considered hazardous by OSHA.
Canada DSL: These chemicals are listed on the Canada DSL list.
TSCA: The components of this solution are listed on the TSCA Inventory
SARA Title III Section 313: Not Applicable
RCRA Status: Not Applicable
CERCLA Reportable Quantity: Not reported
WHMIS: E: Corrosive Material. B-2: Flammable and Combustible material. Flammable Liquid.
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16 – Additional Information

Disclaimer: The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.