SAFETY DATA SHEET
FOUCHET'S REAGENT

Section 1 - Chemical Product and Company Identification

SDS Name: Fouchet's Reagent
Catalog Numbers: SO-336, B-168-1, J-611-1
Company Identification: Transene Company, Inc., DBA ROWLEY BIOCHEMICAL Inc.
10 ELECTRONICS AVENUE
DANVERS, MA 01923
For information, call: 978-739-4883
Emergency Number: 800-424-9300
For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

GHS Classifications

H290-Corrosive to metals: 1
H302-Acute toxicity, oral: 4
H314-Skin corrosion/irritation: 1B
H318-Serious eye damage/eye irritation: 1
H332-Acute toxicity, inhalation: 4
H351-Carcinogenicity: 2
H371-Specific target organ toxicity, single exposure: 2
H373-Specific target organ toxicity, repeated exposure: 2

Pictograms or Hazard symbols and Hazard statement(s):

Signal word: Danger

Hazard Statements:

H290-May be corrosive to metals
H302-Harmful if swallowed
H314-Causes severe skin burns and eye damage
H318-Causes serious eye damage
H332-Harmful if inhaled
H351-Suspected of causing cancer
H371-May cause damage to organs
H373-May cause damage to organs through prolonged or repeated exposure (target organs: kidney, liver, and blood)

Precautionary Statements:

P201-Obtain special instructions before use.
P202-Do not handle until all safety precautions have been read and understood.
P234-Keep only in original container.
P260-Do not breathe dust/fume/gas/mist/vapours/spray.
P261-Avoid breathing dust/fume/gas/mist/vapours/spray.
P264-Wash thoroughly after handling.
P270-Do not eat, drink, or smoke when using this product.
P271-Use only outdoors or in a well-ventilated area.
P280-Wear protective gloves/protective clothing/eye protection/face protection.
P281-Use personal protective equipment as required.
P301+P312-If swallowed: Call a Poison Center or doctor/physician if you feel unwell.
P301+P330+P331-If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353-If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340-If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313-If exposed or concerned: Get medical advice/attention.
P309+P311-If exposed or if you feel unwell: Call a Poison Center or doctor/physician.
P310-Immediately call a Poison Center or doctor/physician.
P312-Call a Poison Center or doctor/physician if you feel unwell.
P314-Get medical advice/attention if you feel unwell.
P330-Rinse mouth.
P363-Wash contaminated clothing before reuse.
P390-Absorb spillage to prevent material damage.
P405-Store locked up.
P406-Store in corrosive resistant/container with a resistant inner liner.
P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
76-03-9	Trichloroacetic acid	22.7 w/v
10025-77-1	Ferric Chloride Hexahydrate	0.9 w/v
7732-18-5	Water	Balance

Section 4 - First Aid Measures

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. May cause blindness. Seek immediate medical attention.

Dermal Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek immediate medical advice.

Oral Exposure: If swallowed, seek immediate medical advice. May cause severe and permanent damage to the digestive tract. Causes gastrointestinal burns and perforation of the digestive tract. Do not induce vomiting. Give copious amounts of water.

Inhalation Exposure: If inhaled, remove to fresh air. See immediate medical attention.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use dry chemical, carbon dioxide, dry sand, water spray, or alcohol-resistant foam.

Hazardous Combustion Products: Carbon oxides, hydrogen chloride gas, chlorine, metal oxides, iron oxides, chloroform, phosgene, irritating toxic fumes and gases.

Flash Point: Not available
Autoignition Temperature: Not available
Explosion Limits, Lower: Not available
Upper: Not available
NFPA Rating: (estimated) Health: 3; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s):
Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation.

Methods for Cleaning up: Absorb with sand, earth, or vermiculite. Carefully sweep up and containerize for proper disposal. Do not release to the environment. Do not release to drains.

Section 7 - Handling and Storage

Use care when handling. Wear personal protective equipment. Ensure adequate ventilation. Wash thoroughly after handling. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Store in a tightly closed container. **Refrigerate.** Keep away from incompatible materials.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
Personal Protective Equipment
Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Exposure Limits:

Chemical Name	ACGIH	NIOSH	OSHA – Vacated PELs
Trichloroacetic Acid CAS#76-03-9	0.5 ppm TWA	1 ppm TWA 7 mg/m3 TWA	1 ppm TWA 7 mg/m3 TWA
Ferric Chloride Hexahydrate CAS#10025-77-1	1 mg/m3 TWA	1 mg/m3 TWA	1 mg/m3 TWA

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Appearance: Not available
Odor: Not available
Vapor Pressure: Not available
Odor threshold: Not available
Vapor Density: Not available
pH: 0.15-0.35
Relative density: Not available
Melting point/freezing point: Not available
Solubility: Soluble in water
Boiling Point: Not available
Flash point: Not available
Evaporation Rate: Not available
Flammability (solid, gas): Not available
Partition coefficient: n-octanol/water: Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity: Not available
Specific Gravity/Density: Not available

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. **Refrigerate.**
Conditions to Avoid: Incompatible materials, ignition sources, excess heat, freezing, exposure to air or moisture.
Incompatibilities with Other Materials: Strong oxidizing agents, metals, and strong bases.
Hazardous Decomposition Products: Carbon oxides, hydrogen chloride gas, chlorine, metal oxides, iron oxides, chloroform, phosgene, irritating toxic fumes and gases.

Section 11 - Toxicological Information

CAS#76-03-9 Trichloroacetic Acid: RTECS#: AJ7875000
LD50 Oral: 3320 mg/kg (rat)
LD50 Dermal: Not available
LC50 Inhalation: Not available

Carcinogenicity: Trichloroacetic Acid CAS#76-03-9 is listed by IARC (Group 2B, Possibly Carcinogenic to Humans), and the ACGIH (Animal Carcinogen). Trichloroacetic Acid is not listed by NTP, OSHA or California Prop 65.

CAS#10025-77-1 Ferric Chloride Hexahydrate: RTECS#: NO5425000
LD50 Oral: 900 mg/kg (rat)
LD50 Dermal: Not available
LC50 Inhalation: Not available

Carcinogenicity: Ferric Chloride Hexahydrate CAS#10025-77-1 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop 65.

Carcinogenicity: Not available
Epidemiology: Not available
Teratogenicity: Not available
Reproductive Effects: Not available
Developmental Effects: Not available
Neurotoxicity: Not available
Mutagenicity: Not available
Specific Target Organ Toxicity, Single Exposure: Not available
Specific Target Organ Toxicity, Repeated Exposure: Kidney, liver, and blood.

The toxicological properties of this material have not been thoroughly investigated.

Note: Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Strong caustic effect of skin and mucous membranes. May cause severe and permanent damage to the digestive tract. Causes gastrointestinal burns and perforation of the digestive tract. Causes serious eye damage. May cause blindness.

Section 12 - Ecological Information

Ecotoxicity: Do not release to the environment. Do not release to drains. Very toxic to aquatic life with long lasting effects. May cause long-term adverse effects to the environment.

CAS#76-03-9 Trichloroacetic Acid:
LC50, freshwater fish: >277 mg/L
LC50, freshwater algae: 0.27 mg/L
EC50, water flea: 110 mg/L

CAS#10025-77-1 Ferric Chloride Hexahydrate:
LC50, freshwater fish: 20.3 mg/L 96h (Lepomis macrochirus – Bluegill sunfish)
LC50, freshwater fish: 22 mg/L 96h (anhydrous substance)
EC50, water flea: 9.6 mg/L 48h (Daphnia magna)

Persistence and degradability: Not available
Bio-accumulative potential: Not available
Mobility: Will likely be mobile in the environment due to its water solubility.

Section 13 - Disposal Considerations

DISPOSAL: Dispose of in accordance with all federal, state, and local regulations.

Section 14 – Transport Information

DOT
Proper shipping name: Trichloroacetic acid, solution
UN2564
PG II
Hazard class 8

Section 15 - Regulatory Information

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

Section 16 - Additional Information

SDS Creation Date: 10/15/12
Revision #1. 11/26/14 YM
Revision #2. 1-18-22

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