

# Safety Data Sheet

## Weigert's Iron Hematoxylin B

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Weigert's Iron Hematoxylin B

**Catalog Numbers:** SO-466, A-102-1B, A-109-1B, A-122-1B, E-304-1B, E-320-4, F-350-5, F-352-3, F-355-3B, F-362-6, F-364-2, F-367-2B, F-370-4B, F-375-4, F-383-2B, F-384-1B, F-385-2B, F-386-2B, F-390-4B, G-458-4B, G-470-2B, G-486-1B, L-757-2, L-758-2, N-853-4B

**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

H314-Skin corrosion/irritation: 1B

H318-Serious eye damage/eye irritation: 1

H332-Acute toxicity, inhalation: 4

H335-Specific target organ toxicity, single exposure; Respiratory tract irritation: 3

1.2% of the mixture consists of ingredients of unknown acute dermal toxicity.

1.2% of the mixture consists of ingredients of unknown acute inhalation toxicity.

#### Pictograms or Hazard symbols and Hazard statement(s):



Signal Word: Danger

#### Hazard Statements:

H290-May be corrosive to metals

H314-Causes severe skin burns and eye damage  
H318-Causes serious eye damage  
H332-Harmful if inhaled  
H335-May cause respiratory irritation

### Precautionary Statements:

P234-Keep only in original packaging.  
P260-Do not breathe dusts or mists.  
P261-Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264-Wash thoroughly after handling.  
P271-Use only outdoors or in a well-ventilated area.  
P280-Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P330+P331-If swallowed: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353-If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340-If inhaled: Remove person to fresh air and keep 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.  
P310-Immediately call a Poison Center/doctor.  
P312-Call a Poison Center/doctor if you feel unwell.  
P363-Wash contaminated clothing before reuse.  
P390-Absorb spillage to prevent material damage.  
P403+P233-Store in a well-ventilated place. Keep container tightly closed.  
P405-Store locked up.  
P406-Store in a corrosion 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
10025-77-1	Ferric Chloride Hexahydrate	1.2 w/v
7647-01-0	Hydrochloric acid	1.0 v/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. 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 medical attention.

**Oral Exposure:** If swallowed, seek immediate medical advice. Do not induce vomiting. Rinse mouth with water and drink small quantities of water (stop if the exposed person feels sick as vomiting may be dangerous).

**Inhalation Exposure:** If inhaled, remove to fresh air. If breathing becomes difficult, seek 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:** Hydrogen chloride gas, hydrogen gas, chlorine, iron oxides, potentially hazardous fumes and gases.

**Flash Point:** Not available

**Autoignition Temperature:** Not available

**Explosion Limits, Lower:** Not available

**Upper:** Not available

**NFPA Rating:** (estimated) Health: 2; Flammability: 0; Instability: 0

Note: Contact with metals may produce flammable hydrogen gas.

## 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:** Spilled material may be neutralized with sodium carbonate, sodium bicarbonate, or sodium hydroxide. 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. Wash thoroughly after handling. Ensure adequate ventilation. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Keep in a tightly closed and non-metal container. Store in a cool, dry, and well-ventilated area. Protect from direct sunlight. 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 - TLV	NIOSH - IDLH	OSHA - Final PELs
Ferric Chloride Hexahydrate CAS#10025-77-1	1 mg/m <sup>3</sup> TWA	1 mg/m <sup>3</sup> TWA	1 mg/m <sup>3</sup> TWA (vacated)
Hydrochloric Acid CAS#7647-01-0	2ppm Ceiling	5 ppm Ceiling 7 mg/m <sup>3</sup> Ceiling 50 ppm IDLH	5 ppm Ceiling 7 mg/m <sup>3</sup> Ceiling

**OSHA Vacated PELs:** Ferric Chloride Hexahydrate: 1 mg/m<sup>3</sup> TWA  
Hydrochloric Acid: 5 ppm Ceiling; 7 mg/m<sup>3</sup> Ceiling

## Section 9 - Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** Yellow-amber

**Odor:** Faint pungent odor

**Vapor Pressure:** Not available

**Odor Threshold:** Not available

**Vapor Density:** Not available

**pH:** 0.90-1.10

**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

**Autoignition 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.  
**Conditions to Avoid:** Incompatible materials, ignition sources, excess heat, and direct sunlight.  
**Incompatibilities with Other Materials:** Strong oxidizing agents, bases, reducing agents, acids, metals, sulfides, sulfites, formaldehyde, permanganates, fluorine, metal oxides, hydroxides, carbonates, metal acetylides, sodium hypochlorite, amines, cyanides, sodium/sodium oxides, and alkalis.  
**Hazardous Decomposition Products:** Hydrogen chloride gas, hydrogen gas, chlorine, iron oxides, potentially hazardous fumes and gases.

Note: Contact with metals may produce flammable hydrogen gas.

## Section 11 - Toxicological Information

**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.

**CAS#7647-01-0 Hydrochloric Acid: RTECS#: MW4025000**

LD50 Oral: 238-277 mg/kg (rat)  
LD50 Dermal: >5010 mg/kg (rabbit)  
LC50 Inhalation: 1.68 mg/L 1h (rat)

**Carcinogenicity:** Hydrochloric Acid CAS#7647-01-0 is not listed by NTP, ACGIH, OSHA, or California Prop. 65. Hydrochloric Acid is listed by IARC (Group 3, Not Classifiable as to its Carcinogenicity to Humans).

**Information on the likely routes of exposure:** Routes of entry anticipated: oral, dermal, inhalation, and eye.

**Epidemiology:** Not available.

**Teratogenicity:** Not available.

**Reproductive Effects:** Not available.

**Developmental Effects:** Not available.

**Neurotoxicity:** Not available.

**Mutagenicity:** Investigated for germ cell mutagenicity in animal studies (Hydrochloric Acid).

**Specific Target Organ Toxicity, Single Exposure:** Respiratory tract.

**Specific Target Organ Toxicity, Repeated Exposure:** Not available.

**Symptoms associated with exposure:** Causes serious eye damage. Eye contact may cause pain, watering, redness, risk of blindness. Skin contact may cause burns, pain, irritation, redness, blistering. Ingestion may cause burns, stomach pains, diarrhea, vomiting, nausea. Inhalation may cause respiratory track irritation, cough, dizziness, headache.

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

## Section 12 - Ecological Information

**Ecotoxicity:** Do not release to the environment. Do not release to drains. Toxic to aquatic life. May cause long-term adverse effects to the environment.

**CAS#10025-77-1 Ferric Chloride Hexahydrate:**

LC50, freshwater fish: 20.95-22.56 mg/L 96h semi-static (pimephales promelas)(fathead minnow) (anhydrous substance)

LC50, freshwater fish: 20.26 mg/L 96h semi-static (lepomis macrochirus)(bluegill) (anhydrous substance)

EC50, water flea: 9.6 mg/L 48h static (daphnia magna) (anhydrous substance)

**CAS#7647-01-0 Hydrochloric Acid:**

LC50, freshwater fish: 282 mg/L 96h (gambusia affinis)(mosquito fish)

LC50, freshwater fish: 862 mg/L (leuciscus idus)(golden orfe)

EC50, water flea: 56 mg/L 72h (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: Corrosive liquid, acidic, inorganic, N.O.S. (Hydrochloric acid, Ferric chloride hexahydrate)

UN3264  
PG III  
Hazard class 8

Section 15 - Regulatory Information
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### 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
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**SDS Creation Date:** 10/15/12

**Revision #1:** 10/10/13 CF

**Revision #2:** 11-29-21

**Revision #3:** 3-19-24

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