

IRON REAGENT #1

Product: R-0851

Section 1: PRODUCT INFORMATION

Chemical family: Inorganic acid/organic dye.

Product uses: Chemical.

Supplier: Lowry & Associates, div. of Chem-Aquascience, Inc
 Canadian Master Distributors for Taylor Technologies, Inc.
 4-1151 Gorham Street
 Newmarket, ON.
 L3Y 8Y1
 Tel: 905-836-0505
 Fax: 905-895-4539.

Emergency Phone Number: Canutec 613-996-6666.

Manufacturer: Taylor Technologies Inc.
 31 Loveton Circle
 Sparks, MD USA 21152
 Tel: 410-472-4340.

TDG classification: HYDROCHLORIC ACID SOLUTION
 UN1789
 Class 8
 PG II.



WHMIS classification:

E, D1A.



DSL status: The substance(s) listed in section 2 appear on the Domestic Substances List.

Product name: Iron Reagent #1.

Section 2: HAZARDOUS INGREDIENTS

C.A.S.	CONCENTRATION %	Ingredient Name	T.L.V.	LD/50	LC/50
5470-11-1	< 10	HYDROXYLAMINE HYDROCHLORIDE	NOT AVAILABLE	141 MG/KG RAT ORAL 408 MG/KG MOUSE ORAL	NOT AVAILABLE
7647-01-0	< 10	HYDROCHLORIC ACID	2 PPM CL	900 MG/KG RABBIT ORAL	3124 PPM/1H RAT INHALATION 1108 PPM/1H MOUSE INHALATION 45000 MG/M3/5M RAT INHALATION 7004 MG/M3/30M RAT INHALATION 20487 MG/M3/5M MOUSE INHALATION 3940 MG/M3/30M MOUSE

					INHALATION 2644 PPM/30M MOUSE INHALATION
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Section 2A: ADDITIONAL INGREDIENT INFORMATION

Note: Balance: Water (CAS# 7732-18-5).

Section 3: PHYSICAL DATA

Physical state: Liquid.

Appearance & odor: Odourless.
Clear
Colorless to yellow or orange.

Odor threshold (ppm): Not applicable.

Vapour pressure (mmHg): 17

Vapour density (air=1): 1.3

Volatiles (%)

By volume: 90%

**Evaporation rate
(butyl acetate = 1):** Not available.

Boiling point (°C): 102

Freezing point (°C): Not available.

pH: 0.1

Specific gravity @ 20 °C: 1.1

Solubility in water (%): Soluble.

Coefficient of water\oil dist.: Not available.

VOC: Not available.

Section 4: FIRE & EXPLOSION DATA

Flammability: Not flammable.

Conditions of flammability: Surrounding fire.

Extinguishing media: Carbon dioxide, dry chemical, foam.
Water spray.

Special procedures: Wear a positive-pressure, self-contained breathing apparatus and full protective equipment.

Auto-ignition temperature (°C): Not applicable.

Flash point (°C), method: Not applicable.

**Lower flammability
limit (% vol):** Not applicable.

**Upper flammability
limit (% vol):** Not applicable.

Explosion Data

- Sensitivity to static discharge:** Not applicable.
- Sensitivity to mechanical impact:** Not applicable.
- Hazardous combustion products:** Oxides of nitrogen (NO_x).
Chlorine (Cl₂).
Hydrogen chloride (HCl).
Contact with metals may produce flammable hydrogen gas.
- Explosive power:** Not applicable.

Section 5: REACTIVITY DATA

- Chemical stability:** Stable under normal conditions.
- Conditions of instability:** Excessive heat.
Extreme temperatures.
- Hazardous polymerization:** Not available.
- Incompatible substances:** Metals.
Strong oxidizers.
Alkalines.
- Hazardous decomposition products:** See hazardous combustion products.

Section 6: TOXICOLOGICAL PROPERTIES
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- Route of entry:** Skin contact, inhalation and ingestion.
- Effects of acute exposure
- Eye contact:** Corrosive.
May cause severe burns.
- Skin contact:** Corrosive.
May cause severe burns.
- Inhalation:** Irritant.
- Ingestion:** Corrosive.
May cause burns of the mouth, esophagus and stomach.
May cause severe irritation of the gastrointestinal tract.
- Effects of chronic exposure:** Pre-existing eye, skin and respiratory disorders may be aggravated.
- LD50 of product, species & route:** Not available for mixture, see the ingredients section.
- LC50 of product, species & route:** Not available for mixture, see the ingredients section.
- Exposure limit of material:** Not available for mixture, see the ingredients section.
- Sensitization to product:** Not available.
- Carcinogenic effects:** Not listed as a carcinogen.
- Reproductive effects:** Not available.
- Teratogenicity:** Not available.
- Mutagenicity:** Not available.

Synergistic materials: Not available.

Section 7: PREVENTATIVE MEASURES

Precautionary Measures

Gloves/Type:



Rubber gloves.

Respiratory/Type:



Wear a NIOSH approved respirator if TLV is exceeded.

Eye/Type:



Safety glasses.

Footwear/Type: Safety shoes per local regulations.

Clothing/Type:



Wear a rubber apron.



Lab coat.

Other/Type: Eye wash facility should be in close proximity.
Emergency shower should be in close proximity.

Ventilation requirements: Provide sufficient mechanical ventilation to maintain exposure below TLV.

Leak/Spill: Wear appropriate protective equipment.
Neutralize with soda ash.
Soak up with inert absorbent.
Place in a closed container for disposal.

Waste disposal: In accordance with municipal, provincial and federal regulations.

Handling procedures and equipment: Avoid breathing vapors/mists.
Use adequate ventilation.
Wash thoroughly after using, particularly before eating or smoking.
Wear personal protective equipment appropriate to task.
Avoid contact with skin, eyes and clothing.
Launder contaminated clothing prior to reuse.

Storage requirements: Keep out of direct sunlight.
Store in a cool, dry and well ventilated area.

Special shipping information: See transportation information.

Section 8: FIRST AID MEASURES

Skin contact: Remove contaminated clothing.
Get immediate medical attention.
Wash with baking soda, soap and water.

Eye contact: Immediately flush eyes with running fresh water for a minimum of 20 minutes.
Hold eyelids open during flushing. Obtain medical attention immediately.

Inhalation: Remove victim to fresh air.
Obtain medical attention.

Ingestion: Never give anything by mouth to an unconscious person.
Drink a large amount of water.
Do not induce vomiting, seek immediate medical attention.

Additional information: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any inaccuracies.

Section 9: ADDITIONAL INFORMATION

General note: This material safety data sheet was prepared from information obtained from various sources, including product suppliers and the Canadian Center for Occupational Health and Safety.

Data prepared by: Lowry & Associates, div. of Chem–Aquascience, Inc
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