

# IRON REAGENT #1

Product: R-0851

## Section 1: PRODUCT INFORMATION

**Chemical family:** Inorganic acid/organic dye.

**Supplier:** Lowry & Associates  
Agents for Taylor Technologies Inc.  
4 – 1151 Gorham Street  
Newmarket, Ontario  
L3Y 7V1  
Tel: 905-836-0505  
Fax: 905-895-4539.

**Emergency Phone Number:** Canutec 613-996-6666.  
410-472-4340

**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, D1B.



**DSL status:** Appears on DSL.

## Section 2: HAZARDOUS INGREDIENTS

C.A.S.	CONCENTRATION %	Ingrédient	V.L.E.	DL/50	CL/50
3682-35-7	< 1	2,4,6-TRIPYRIDYL-1,3,5-TRIAZINE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
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/IH RAT INHALATION 1108 PPM/IH MOUSE INHALATION 60938 MG/M3/5M RAT INHALATION 20487 MG/M3/5M MOUSE INHALATION

## Section 2A: ADDITIONAL INGREDIENT INFORMATION

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

### Section 3: PHYSICAL DATA

**Physical state:** Liquid.

**Appearance & odor:** Odourless.  
Colourless.

**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:** Self-contained breathing apparatus required.  
Firefighters should wear the usual protective gear.

**Auto-ignition temperature:** 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<sub>x</sub>).  
Chlorine (Cl<sub>2</sub>).  
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.  
Direct sunlight.  
Extreme temperatures.

**Hazardous polymerization:** Not available.

**Incompatible substances:** Metals.  
Strong oxidizers.  
Alkalies.

**Hazardous decomposition products:** See hazardous combustion products.

#### Section 6: TOXICOLOGICAL PROPERTIES

**Route of entry:** Skin contact, eye contact, inhalation and ingestion.

Effects of acute exposure

**Eye contact:** Corrosive.  
May cause severe burns.

**Skin contact:** Corrosive.  
May cause severe burns.

**Inhalation:** Irritant.  
May be harmful if inhaled.

**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:** None required under normal use.




NIOSH approved respirator, if necessary.

**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.  
Transfer to an approved container for disposal or recovery.

**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.  
Do not take internally.  
Launder contaminated clothing prior to reuse.

**Storage requirements:** Store away from incompatible materials.  
Keep out of direct sunlight.  
Keep containers tightly closed.  
Store in a cool, dry and well ventilated area.

**Special shipping information:** See transportation information.

## Section 8: FIRST AID MEASURES

**Skin contact:** Wash with water for at least 15 minutes.  
Get medical attention.  
Wash with baking soda, soap and water.

**Eye contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids. Get prompt medical attention.

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

**Ingestion:** Obtain immediate medical attention.  
Give diluted milk of magnesia.  
Do not induce vomiting.  
Never give anything by mouth to an unconscious person.  
Drink a large amount of water.

**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  
Agents for Taylor Technologies Inc.  
4 – 1151 Gorham Street  
Newmarket, Ontario  
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Fax: 905–895–4539.

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