


Nutrafin Iron Test Kit
Iron Reagent #1
A7836

Section I. Product and Company Identification	
Product name	Nutrafin Iron Test kit Reagent #1
CAS #	Mixture
Use	To measure iron level in aquarium water
Supplier	Rolf C. Hagen Inc., 20 500 Trans Canada Hwy, Baie d'Urfé, H9X 0A2
Emergency	Call your local poison control center

Section II. Hazards Identification	
WHMIS	Classification
	E (Corrosive) D-2A (Very Toxic)

Section III. Composition and Information on Ingredients			
Ingredients	Conc. (%)	CAS #	EC #
Hydroxylamine hydrochloride	<1	5470-11-1	226-798-2
2,4,6-Tri (2-pyridyl)-1,3,5-triazine	<1	3682-35-7	222-965-9
Hydrochloric acid	<0.5	7647-01-0	231-595-7
Water	Q.S.	7732-18-5	231-791-2

Section IV. First Aid Measures	
Eye contact	Immediately flush with copious quantities of water for a minimum of 15 minutes holding lids apart to ensure flushing of the entire surface. Seek immediate medical attention.
Skin contact	Remove the contaminated clothes and flush with plenty of water and soap. Seek medical attention is irritation symptoms persist.
Inhalation	If inhaled, remove patient to fresh air. If symptom persists, obtain medical attention.
Ingestion	Have conscious person drink several glasses of water or milk. DO NOT induce vomiting. Obtain medical attention immediately.

Section V. Fire Fighting Measures	
Suitable extinguishing media	
Use extinguishing media appropriate to surrounding fire conditions.	
Specific hazards arising from the chemical	

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Hydrogen chloride.
Special protective actions for fire-fighters
Wear adequate personal protection to prevent contact with material or its combustion products. Self-contained breathing apparatus with a full-face piece operated in a pressure demand or other positive pressure mode.

Section VI. Accidental Release Measures	
Person-related safety precautions	Rubber or plastic gloves. Full face-shield or chemical splash goggles or face mask. Protective clothing, apron, rubber boots.
Measures for environmental protection	DO NOT empty into drain.
Measures for cleaning/collecting	Absorb spill with inert material such as clays, sand, earth, or vermiculate and place in closed container for disposal. Clean the spill area after product complete removal.

Section VII. Handling and Storage	
Store away from bases, reducing and oxidizing agent, sodium, fluoride, calcium carbide. Do not store with incompatible materials, even in case of spill. Store in cool, well-ventilated area. Keep containers closed and in upper position.	

Section VIII. Exposure Controls and Personal Protection	
Protective clothing	Rubber or plastic gloves. Full face-shield or chemical splash goggles or face mask. Protective clothing, apron, rubber boots.
Engineering controls	General ventilation is recommended.

Section IX. Physical and Chemical Properties	
Appearance (physical state, color, etc) / Odor	Liquid. Odourless and Colourless.
Odor threshold	Not available
pH	< 2
Melting point / Freezing point	0 °C
Initial boiling point and boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper / Lower flammability	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available

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Solubility	Miscible in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available

Section X. Stability and Reactivity	
Instability conditions	This product is stable under normal conditions.
Conditions to avoid	Avoid high temperatures and contamination.
Materials to avoid	Alkalis, oxidizing and reducing agents, sodium, fluoride, calcium carbide, metals.
Hazardous decomposition products	Toxic gas of hydrogen chloride.
Hazardous polymerization	Does not polymerize

Section XI. Toxicological Information	
Route of exposure	Conclusion / Remarks
Skin corrosion/irritation	Causes burns if he exposed area is not washed immediately.
Serious eye damage/irritation	Cause severe burns. May cause permanent damage.
Respiratory or skin sensitization	If inhaled, may cause nose and throat irritation.
Ingestion	If ingested burning of the mouth, pharynx and abdomen. Hydroxylamine hydrochloride Oral (LD50): Acute 400 mg/kg (mouse) Hydrochloric Acid Oral (LD50): Acute 900 mg/kg (rabbit) LC50: 3,124 ppm (rat -1hr.)
Germ cell mutagenicity	Laboratory experiments have shown mutagenic effect of Hydroxylamine hydrochloride.
Carcinogenicity	Not available
Reproductive toxicity	Not available
STOT-single exposure	Not available
STOT-repeated exposure	Not available
Aspiration hazard	Not available
Acute toxicity	Corrosive! Harmful if ingested or inhaled. Causes severe burn
Chronic Overexposure	Laboratory experiments have shown mutagenic effect of Hydroxylamine hydrochloride. Target organ: blood.



MATERIAL SAFETY DATA SHEET

ROLF C. HAGEN INC., 20500 TRANSCANDA HWY,
BAIE D'URFÉ, QUEBEC, H9X 0A2
CANADA

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Section XII. Ecological Information	
Ecotoxicity	Not available
Mobility	Not available
Persistence and Degradability	Not available
Bioaccumulation potential	Not available

Section XIII. Disposal Considerations	
Disposal recommendations	Dispose of in an approved landfill in accordance with federal, provincial and local regulations.
Regulatory disposal information	Not available

Section XIV. Transport Information
Reagent TDG CLASS 8. PIN UN1789, HYDROCHLORIC ACID PG:III Kit TDG CLASS 9. PIN UN3316

Section XV. Regulatory Information
Not available

Section XVI. Other Information
Corrosive! Avoid all contact with product. Always wash hands after manipulating this product container and before eating.
While the company believes the data set forth herein are accurate as the date hereof, the company makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration and verification.

Prepared by Rolf C. Hagen Inc. (514) 457-0914	Validated: February 28 th , 2014
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