



**MATERIAL SAFETY DATA SHEET**

ROLF C. HAGEN INC., 20500 TransCanada HWY,  
Baie d'Urfé, QUEBEC, H9X 0A2  
CANADA

<b>Nutrafin test kit</b>
<b>Fe #1</b>
<b>A7836</b>

Section I. Product identification and uses		Section II. Hazardous ingredients
Product name	Iron reagent # 1	- Hydroxylamine hydrochloride <1%
Chemical formula	Mixture	CAS : 5470-11-1 TLV: Not established
Chemical family	Mixture	- 2, 4, 6 -tri (2-pyridil )-1, 3, 5-triazine <1%
		CAS : 3682-35-7 TLV : Not established
Material uses	Reagent to determine iron level in water.	- Hydrochloric acid < 0,5%
		CAS : 7647-01-0 TLV : ORAL ( LD-50 ) : acute:
		900mg/kg ( rabbit), LC-50:
		3124 ppm ( 1hr-rat )
Section III. Physical data		
Physical state and appearance/ Odor	Colourless, liquid, odorless.	
pH (10%)	<2	
Percent volatile	Not available	
Freezing point	32° F (0 °C)	
Boiling point	Not available	
Specific gravity	1	
Vapor density	Not applicable	
Vapor pressure	Not applicable	
Evaporation rate	Not available	
Solubility	Completely soluble in water	
Section IV. Fire and explosion data		
- Fire and explosion hazards : none		
Section V. Reactivity data		
- Stability : Stable		
- Incompatibility : Strong oxidizing agents.		



# MATERIAL SAFETY DATA SHEET

ROLF C. HAGEN INC., 20500 TransCanada HWY,  
Baie d'Urfé, QUEBEC, H9X 0A2  
CANADA

<b>Nutrafin test kit</b>
<b>Fe #1</b>
<b>A7836</b>

Section VI. Toxicological properties	
<b>Routes of entry</b>	
Effects of acute exposure	Corrosive to skin. Harmful if swallowed or inhaled. Causes severe burns.
Eye	Causes severe burns. May cause permanent damage.
Skin	Causes burns if the exposed area is not washed immediately.
Inhalation	If inhaled, nose and throat irritation.
Ingestion	If ingested, burning of the mouth, pharynx and abdomen.
Effects of chronic overexposure	Laboratory experiments have shown mutagenic effect of hydroxylamine hydrochloride. Target organ: blood.

Section VII First aid measures	
Eye contact	Immediately flush with copious quantities of water for at least 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 if irritation symptoms persist.
Inhalation	If inhaled, remove patient to fresh air. If the symptoms persist, consult a physician.



## MATERIAL SAFETY DATA SHEET

ROLF C. HAGEN INC., 20500 TransCanada HWY,  
Baie d'Urfé, QUEBEC, H9X 0A2  
CANADA

**Nutrafin test kit**

**Fe #1**

**A7836**

Page 3 of 3

Ingestion

Have conscious person drink several glasses of water or milk. DO NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention.

### Section VIII. Preventive measures

Protective clothing in case of spill and leak

See section IX for personal protective equipment.

Spill and leak

Absorb spill with inert materials such as clays, sand, earth or vermiculite and place in closed container for disposal. Clean the spill area after product complete removal. DO NOT empty into drain.

Waste disposal

According to all applicable regulations.

Storage and handling

Store away oxidizers. Do not store with other incompatible materials, even in case of spill. Keep containers closed and in upper position.

### Section IX. Protective measures

Protective clothing

Rubber or plastic gloves. Chemical splash goggles or face mask. Protective clothing, apron. Rubber boots.

Engineering controls

General ventilation is recommended.

### Section X. Other information

Special precautions or comments

Corrosive! Avoid all contact with product. Wash always hands after this product containers manipulation, and before eating.

Prepared by Rolf C. Hagen Inc.  
(514) 457-0914

Validated October, 31<sup>st</sup> 2008