



*a member of the Roche Group*

## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**VENTANA MEDICAL SYSTEMS INC.**  
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**MSDS NUMBER:** 00231574

**SUBSTANCE:** Iron Reagent B

**PRODUCT NUMBER(S):** 1522300

**PRODUCT USE:** clinical/research

**CREATION DATE:** Feb 07 2006

**REVISION DATE:** Mar 05 2009

### 2. HAZARDS IDENTIFICATION

**NFPA RATINGS (SCALE 0-4):** HEALTH=1 FIRE=0 REACTIVITY=0

**EC CLASSIFICATION:**

Xi Irritant



**RISK PHRASES:**

R 36/37/38 Irritating to eyes, respiratory system and skin.

**EMERGENCY OVERVIEW:**

**COLOR:** colorless

**PHYSICAL FORM:** liquid

**ODOR:** odorless

**MAJOR HEALTH HAZARDS:** No significant target effects reported.

**POTENTIAL HEALTH EFFECTS:**

**INHALATION:**

**SHORT TERM EXPOSURE:** no information on significant adverse effects

**LONG TERM EXPOSURE:** no information on significant adverse effects

**SKIN CONTACT:**

**SHORT TERM EXPOSURE:** no information on significant adverse effects

**LONG TERM EXPOSURE:** no information on significant adverse effects

**EYE CONTACT:**

**SHORT TERM EXPOSURE:** no information on significant adverse effects

**LONG TERM EXPOSURE:** no information on significant adverse effects

**INGESTION:**

**SHORT TERM EXPOSURE:** no information on significant adverse effects

**LONG TERM EXPOSURE:** no information on significant adverse effects

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### 3. COMPOSITION, INFORMATION ON INGREDIENTS

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**COMPONENT:** NON-HAZARDOUS

**CAS NUMBER:** Not assigned.

**EC NUMBER:** Not assigned.

**PERCENTAGE:** 60-100

**EC CLASSIFICATION:** No classification assigned.

**COMPONENT:** HYDROCHLORIC ACID, 1N

**CAS NUMBER:** Not assigned.

**EC NUMBER:** Not assigned.

**PERCENTAGE:** <2

**EC CLASSIFICATION:** Xn; C; Xi

**RISK PHRASES:** 20-35-37

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### 4. FIRST AID MEASURES

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**INHALATION:** If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

**SKIN CONTACT:** Wash contaminated areas with soap and water. Thoroughly clean and dry contaminated clothing before reuse. Get medical attention, if needed.

**EYE CONTACT:** Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

**INGESTION:** If a large amount is swallowed, get medical attention.

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### 5. FIRE FIGHTING MEASURES

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**FIRE AND EXPLOSION HAZARDS:** Negligible fire hazard.

**EXTINGUISHING MEDIA:** Use extinguishing agents appropriate for surrounding fire.

**FIRE FIGHTING:** Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products.

**SENSITIVITY TO MECHANICAL IMPACT:** Not sensitive

**SENSITIVITY TO STATIC DISCHARGE:** Not sensitive

**FLASH POINT:** not flammable

**HAZARDOUS COMBUSTION PRODUCTS:**

Thermal decomposition or combustion products: hydrogen chloride gas

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## 6. ACCIDENTAL RELEASE MEASURES

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**OCCUPATIONAL RELEASE:**

Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

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## 7. HANDLING AND STORAGE

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**STORAGE:** Store and handle in accordance with all current regulations and standards. Store at room temperature. See original container for storage recommendations. Keep separated from incompatible substances.

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## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

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**EXPOSURE LIMITS:**

**Iron Reagent B:**

No occupational exposure limits established.

**VENTILATION:** Provide adequate ventilation. Ensure compliance with applicable exposure limits.

**EYE PROTECTION:** Safety glasses or goggles are recommended when there is a potential for eye contact. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**CLOTHING:** Lab coat or apron.

**GLOVES:** Wear appropriate chemical resistant gloves.

**PROTECTIVE MATERIAL TYPES:** latex, vinyl, nitrile

**RESPIRATOR:** No respirator is required under normal conditions of use.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**PHYSICAL STATE:** liquid

**APPEARANCE:** clear

**COLOR:** colorless

**ODOR:** odorless

**BOILING POINT:** Not available

**FREEZING POINT:** Not available

**VAPOR PRESSURE:** Not available  
**VAPOR DENSITY:** Not available  
**SPECIFIC GRAVITY:** Not available  
**WATER SOLUBILITY:** miscible  
**PH:** acidic  
**VOLATILITY:** Not available  
**ODOR THRESHOLD:** Not available  
**EVAPORATION RATE:** Not available  
**COEFFICIENT OF WATER/OIL DISTRIBUTION:** Not available

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## 10. STABILITY AND REACTIVITY

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**REACTIVITY:** Stable at normal temperatures and pressure.

**CONDITIONS TO AVOID:** None reported.

**INCOMPATIBILITIES:** bases, amines, alkali metals, copper, copper alloys, aluminum, steel

**HAZARDOUS DECOMPOSITION:**

Thermal decomposition or combustion products: hydrogen chloride gas

**POLYMERIZATION:** Will not polymerize.

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## 11. TOXICOLOGICAL INFORMATION

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Not available

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## 12. ECOLOGICAL INFORMATION

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Not available

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## 13. DISPOSAL CONSIDERATIONS

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Dispose in accordance with all applicable regulations.

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## 14. TRANSPORT INFORMATION

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**U.S. DEPARTMENT OF TRANSPORTATION:** Not regulated.

**CANADIAN TRANSPORTATION OF DANGEROUS GOODS:** Not regulated.

**LAND TRANSPORT ADR:** Not regulated.

**LAND TRANSPORT RID:** Not regulated.

**AIR TRANSPORT IATA:** Not regulated.

**AIR TRANSPORT ICAO:** Not regulated.

**MARITIME TRANSPORT IMDG:** Not regulated.

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## 15. REGULATORY INFORMATION

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### **U.S. REGULATIONS:**

**CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):**

**HYDROGEN CHLORIDE (HYDROCHLORIC ACID):** 5000 LBS RQ (liquid)

**SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355 Subpart B):** Not regulated.

**SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355 Subpart C):** Not regulated.

**SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370 Subparts B and C):**

ACUTE: No

CHRONIC: No

FIRE: No

REACTIVE: No

SUDDEN RELEASE: No

**SARA TITLE III SECTION 313 (40 CFR 372.65):** Not regulated.

### **STATE REGULATIONS:**

**California Proposition 65:** Not regulated.

### **CANADIAN REGULATIONS:**

**WHMIS CLASSIFICATION:** Not a Controlled Product under Canada's Workplace Hazardous Material Information System.

### **EUROPEAN REGULATIONS:**

**EC CLASSIFICATION (CALCULATED):**

Xi	Irritant
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### **DANGER/HAZARD SYMBOL:**



**Xi**

### **EC RISK AND SAFETY PHRASES:**

R 36/37/38	Irritating to eyes, respiratory system and skin.
S 24/25	Avoid contact with skin and eyes.
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical

	advice.
S 60	This material and its container must be disposed of as hazardous waste.

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## 16. OTHER INFORMATION

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### EC RISK PHRASES:

R 20	Harmful by inhalation.
R 35	Causes severe burns.
R 36/37/38	Irritating to eyes, respiratory system and skin.
R 37	Irritating to respiratory system.

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