



*a member of the Roche Group*

## MATERIAL SAFETY DATA SHEET

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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**VENTANA MEDICAL SYSTEMS INC.**  
**1910 E. Innovation Park Drive**  
**Tucson, Arizona 85755**  
**(520) 887-2155**

**EMERGENCY TELEPHONE NUMBER:**  
**(800) 424-9300 (USA/Canada)**  
**(CHEMTREC)**  
**+1 (703) 527-3887 (International)**

**MSDS NUMBER:** 00231328

**SUBSTANCE:** Inhibitor

**TRADE NAMES/SYNONYMS:**  
iVIEW™ Inhibitor

**PRODUCT NUMBER(S):** 253-2187

**PRODUCT USE:** clinical/research

**CREATION DATE:** Oct 27 2005

**REVISION DATE:** Mar 05 2009

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### 2. HAZARDS IDENTIFICATION

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**NFPA RATINGS (SCALE 0-4):** HEALTH=2 FIRE=0 REACTIVITY=0

**EC CLASSIFICATION:**  
No classification assigned.



**EMERGENCY OVERVIEW:**

**COLOR:** colorless to amber

**PHYSICAL FORM:** liquid

**ODOR:** faint odor, sharp odor

**MAJOR HEALTH HAZARDS:** potentially fatal if inhaled, harmful if swallowed, respiratory tract irritation, skin irritation, eye irritation

**POTENTIAL HEALTH EFFECTS:**

**INHALATION:**

**SHORT TERM EXPOSURE:** potentially fatal if inhaled, irritation

**LONG TERM EXPOSURE:** irritation

**SKIN CONTACT:**

**SHORT TERM EXPOSURE:** irritation  
**LONG TERM EXPOSURE:** irritation  
**EYE CONTACT:**  
**SHORT TERM EXPOSURE:** irritation, tearing, blurred vision  
**LONG TERM EXPOSURE:** irritation  
**INGESTION:**  
**SHORT TERM EXPOSURE:** irritation  
**LONG TERM EXPOSURE:** irritation

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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:** HYDROGEN PEROXIDE  
**CAS NUMBER:** 7722-84-1  
**EC NUMBER (EINECS):** 231-765-0  
**PERCENTAGE:** 1-5  
**EC CLASSIFICATION:** O; Xn; C  
**RISK PHRASES:** 5-8-20/22-35

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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

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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 between 2 C and 8 C. Keep in the dark. Do not allow material to become dry. Dry residue may explode when heated. 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:**

#### **HYDROGEN PEROXIDE:**

1 ppm (1.4 mg/m<sup>3</sup>) OSHA TWA

1 ppm ACGIH TWA

1 ppm (1.4 mg/m<sup>3</sup>) NIOSH recommended TWA 10 hour(s)

0.71 mg/m<sup>3</sup> (0.5 ml/m<sup>3</sup>) DFG MAK (peak limitation category - I, with excursion factor of 1)

1 ppm (1.4 mg/m<sup>3</sup>) UK WEL TWA

2 ppm (2.8 mg/m<sup>3</sup>) UK WEL STEL

**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

**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 to amber

**ODOR:** faint odor, sharp odor

**BOILING POINT:** Not available  
**FREEZING POINT:** Not available  
**VAPOR PRESSURE:** Not available  
**VAPOR DENSITY:** Not available  
**SPECIFIC GRAVITY:** Not available  
**WATER SOLUBILITY:** miscible  
**PH:** weakly 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:** combustible materials, bases, oxidizing materials, metals, reducing agents, acids, organic solvents and compounds, acid chlorides

**HAZARDOUS DECOMPOSITION:**

Thermal decomposition products: miscellaneous decomposition products

**POLYMERIZATION:** Will not polymerize.

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## 11. TOXICOLOGICAL INFORMATION

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**HYDROGEN PEROXIDE:**

**IRRITATION DATA:** 1 mg eyes-rabbit severe

**TOXICITY DATA:** 2000 mg/m<sup>3</sup> inhalation-rat LC<sub>50</sub>; 9200 mg/kg skin-rabbit LD<sub>50</sub>; 75 mg/kg oral-rat LD<sub>50</sub>

**CARCINOGEN STATUS:** IARC: Human No Adequate Data, Animal Limited Evidence, Group 3;  
ACGIH: A3 -Confirmed Animal Carcinogen

**LOCAL EFFECTS:**

Corrosive: inhalation, skin, eye, ingestion

**ACUTE TOXICITY LEVEL:**

Highly Toxic: inhalation

Toxic: ingestion

Slightly Toxic: dermal absorption

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** eye disorders, respiratory disorders, skin disorders and allergies

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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):** Not regulated.

**SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355 Subpart B):**

**HYDROGEN PEROXIDE:** 1000 LBS TPQ

**SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355 Subpart C):**

**HYDROGEN PEROXIDE:** 1000 LBS RQ

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

ACUTE: Yes

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:** D2B.

**EUROPEAN REGULATIONS:****EC CLASSIFICATION (CALCULATED):**

No classification assigned.

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**16. OTHER INFORMATION**

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**EC RISK PHRASES:**

R 5	Heating may cause an explosion.
R 8	Contact with combustible material may cause fire.
R 20/22	Harmful by inhalation and if swallowed.
R 35	Causes severe burns.

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