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# **Material Safety Data Sheet**

Material Name: ultraView Universal Alkaline Phosphatase Red Naphthol

# \* \* \* Section 1 - Chemical Product and Company Identification\* \* \*

#### **Manufacturer Information**

VENTANA MEDICAL SYSTEMS INC. 1910 E. Innovation Park Drive

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MSDS ID: 00232562

# Material Name: ultraView Universal Alkaline Phosphatase Red Naphthol

**Product Number(s)** 

253-4328, 760-501, 05262445001, 06099157001

**Product Use** 

clinical/research

# \* \* \* Section 2 - Hazards Identification\* \* \*

NFPA Ratings: Health: 2 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Preparation Xi; R:43 Risks

May cause sensitization by skin contact.

#### **EMERGENCY OVERVIEW**

Physical Form: liquid

Major Health Hazards: respiratory tract irritation, skin irritation, eye irritation

## POTENTIAL HEALTH EFFECTS

Inhalation

Short Term: irritation, cough, chest pain, difficulty breathing

Long Term: irritation, cough, difficulty breathing

Skin

**Short Term:** irritation, allergic reactions **Long Term:** irritation, allergic reactions

Eye

Short Term: irritation, eye damage

Long Term: irritation

Ingestion

**Short Term:** gastrointestinal irritation

Long Term: no information on significant adverse effects

**OSHA Regulatory Status** 

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

# \* \* \* Section 3 - Composition/Information on Ingredients\* \* \*

CAS#	Component / EU Number	Percent	Symbol(s)	Risk Phrase(s)
Not Available	Non-hazardous Components	60-100		
77-86-1	Tris(hydroxymethyl)aminomethane 201-064-4	3-7	Xi	R:36-37-38
55965-84-9	Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl- with 2-methyl-3(2H)-isothiazolone	<0.01	TN	R:23/24/25-34- 43-50/53

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# \* \* \* Section 4 - First Aid Measures\* \* \*

#### Inhalation

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

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#### Skin

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

#### **Eyes**

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.

# \* \* \* Section 5 - Fire-Fighting Measures\* \* \*

See Section 9 for Flammability Properties

#### Flammable Properties

Slight fire hazard.

#### **Extinguishing Media**

carbon dioxide, regular dry chemical, regular foam, water

### **Fire Fighting Measures**

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

#### **Hazardous Combustion Products**

Thermal decomposition or combustion products: oxides of carbon, oxides of nitrogen

## **Sensitivity to Mechanical Impact**

Not sensitive

#### Sensitivity to Static Discharge

Not sensitive

# \* \* \* Section 6 - Accidental Release Measures\* \* \*

# Occupational Spill/Release

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

# \* \* \* Section 7 - Handling and Storage\* \* \*

# **Handling Procedures**

Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

#### **Storage Procedures**

Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances.

# \* \* \* Section 8 - Exposure Controls/Personal Protection\* \* \*

### **Exposure Limits**

ACGIH, NIOSH, OSHA, EU, Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Japan, Netherlands, Portugal, Spain, Sweden, and United Kingdom have not developed exposure limits for any of the substances in this preparation.

#### Ventilation

Provide adequate ventilation. Ensure compliance with applicable exposure limits.

# PERSONAL PROTECTIVE EQUIPMENT

## Eyes/Face

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.

#### **Protective Clothing**

Lab coat or apron.

#### **Glove Recommendations**

Wear appropriate chemical resistant gloves.

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## **Respiratory Protection**

No respirator is required under normal conditions of use.

# \* \* \* Section 9 - Physical and Chemical Properties\* \* \*

Physical State: Liquid Appearance: Liquid

Physical Form: liquid Odor: Not available

Odor Threshold: Not available pH: 10.0

Melting/Freezing Point: Not available Boiling Point: Not available Boiling Point: Not available

Decomposition:Not availableFlash Point:not flammableEvaporation Rate:Not availableLEL:Not availableUEL:Not availableVapor Pressure:Not available

Vapor Density (air = 1):Not availableDensity:1.015 g/mLSpecific Gravity (water = 1):Not availableWater Solubility:miscibleLog KOW:Not availableCoeff. Water/Oil Dist.:Not available

Auto Ignition: Not available Viscosity: Not available Viscosity: Not available

Volatility: Not available

# \* \* \* Section 10 - Stability and Reactivity\* \* \*

# **Chemical Stability**

Stable at normal temperatures and pressure.

#### **Conditions to Avoid**

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

#### **Materials to Avoid**

acids, bases, metals, oxidizing materials

#### **Decomposition Products**

Thermal decomposition or combustion products: oxides of carbon, oxides of nitrogen

### **Possibility of Hazardous Reactions**

Will not polymerize.

# \* \* \* Section 11 - Toxicological Information\* \* \*

# **Acute and Chronic Toxicity**

#### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

# Tris(hydroxymethyl)aminomethane (77-86-1)

Oral LD50 Rat 5900 mg/kg

Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl- with 2-methyl-3(2H)-isothiazolone (55965-84-9)

Oral LD50 Rat 53 mg/kg

#### RTECS Acute Toxicity (selected)

The components of this material have been reviewed, and RTECS publishes the following endpoints:

#### Tris(hydroxymethyl)aminomethane (77-86-1)

Oral: >3000 mg/kg Oral Rat LD50

# **Acute Toxicity Level**

#### Tris(hydroxymethyl)aminomethane (77-86-1)

Slightly Toxic: ingestion

Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl- with 2-methyl-3(2H)-isothiazolone (55965-84-9)

Toxic: ingestion

# Irritation/Corrosivity

This material may cause respiratory tract irritation, skin irritation, and eye irritation.

#### **RTECS Irritation**

The components of this material have been reviewed, and RTECS publishes the following endpoints:

# Tris(hydroxymethyl)aminomethane (77-86-1)

25 percent Skin Rabbit moderate; 500 mg Skin Rabbit severe; 100 mg Skin Rat

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**Local Effects** 

Tris(hydroxymethyl)aminomethane (77-86-1)

Irritant: inhalation, skin, eye

Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl- with 2-methyl-3(2H)-isothiazolone (55965-84-9)

Corrosive: inhalation,skin,eye,ingestion

**Target Organs** 

Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl- with 2-methyl-3(2H)-isothiazolone (55965-84-9)

immune system (sensitizer)

Carcinogenicity

**Component Carcinogenicity** 

None of the substances in this preparation are listed by ACGIH, OSHA, NIOSH, NTP, IARC, Austria, Belgium,

Denmark, France, Germany, Ireland, Italy, Netherlands, Portugal, Spain, Sweden, or United Kingdom.

Mutagenic

No data available for the mixture.

**Reproductive Effects** 

No data available for the mixture.

**Tumorigenic** 

No data available for the mixture.

**Medical Conditions Aggravated by Exposure** 

None known.

# \* \* \* Section 12 - Ecological Information\* \* \*

# **Component Analysis - Aquatic Toxicity**

No LOLI ecotoxicity data are available for this product's components.

**Mobility** 

No data available for the mixture.

Persistence & Degradation

No data available for the mixture.

**Bioaccumulative Potential** 

No data available for the mixture.

# \* \* \* Section 13 - Disposal Considerations\* \* \*

## **Disposal Methods**

Dispose in accordance with all applicable regulations.

# **Component Waste Numbers**

The U.S. EPA has not published waste numbers for this product's components.

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\* \* \* Section 14 - Transport Information\* \* \*

**US DOT Information** 

Not regulated.

**TDG Information** 

Not regulated.

**ADR Information** 

Not regulated.

**RID Information** 

Not regulated.

**IATA Information** 

Not regulated.

**ICAO** Information

Not regulated.

**IMDG** Information

Not regulated.

# \* \* \* Section 15 - Regulatory Information\* \* \*

## **U.S. Federal Regulations**

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

**SARA 311/312** 

Acute Health: Yes Chronic Health: No Fire: No Pressure: No Reactive: No

# **U.S. State Regulations**

None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

#### **California Proposition 65**

Not regulated under California Proposition 65

**Canadian Regulations** 

**WHMIS Classification** 

D2B.

## **European Regulations**

This preparation has been classified for the European Union according to Annex VI Directives 67/548/EEC and 99/45/EC.

# **Germany Water Classification**

## Tris(hydroxymethyl)aminomethane (77-86-1)

ID Number 4650, hazard class 2 - hazard to waters

Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl- with 2-methyl-3(2H)-isothiazolone (55965-84-9)

ID Number 2959, hazard class 3 - severe hazard to waters

#### **EU Marking and Labelling**

**Risk Phrases** 

R43 May cause sensitization by skin contact.

**EU Symbols** 

Xi Irritant

**Safety Phrases** 

S24 Avoid contact with skin.

\$37 Wear suitable gloves.

#### **Japanese Regulations**

### Japan Designated Chemical Substances (PRTR Law)

No components of this material are subject to reporting requirements as specified by the "Law Concerning Reporting, etc. of Releases to the Environment of Specific Chemical Substances and Promoting Improvements in Their Management" nor are they included in the "Pollutant Release and Transfer Register (PRTR)" of designated chemicals.

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#### Japan Poisonous and Deleterious Substances

No components of this material are specified as poisonous or deleterious substances, as regulated by Japan under the Poisonous and Deleterious Substances Control Law.

# **Industrial Safety and Health Law - Flammable Materials**

No components of this material are specifically identified in Table 6-2 of the Enforcement Order of the Industrial Safety and Health Law which, if used in the workplace, require designation of an Operations Chief during confined space work and periodic machine inspections.

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## Industrial Safety and Health Law - Label Disclosure

No components of this material are specifically required to be indicated on a container label as specified by Article 18 of the Enforcement Order of the Industrial Safety and Health Law.

# Industrial Safety and Health Law - Organic Solvents

No components of this material are specifically identified in Table 6-2 of the Enforcement Order of the Industrial Safety and Health Law which, if used in the workplace, require designation of an Operations Chief during confined space work and periodic machine inspections.

# \* \* \* Section 16 - Other Information\* \* \*

# Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU -Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR -Controlled Products Regulations: DFG - Deutsche Forschungsgemeinschaft: DOT - Department of Transportation: DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR -New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID -European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US -**United States** 

#### Full text of R phrases in Section 3

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R34 Causes burns.

R36 Irritating to eyes.

R37 Irritating to respiratory system.

R38 Irritating to skin.

R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## Other Information

Limitations: The information and recommendations set forth in this MSDS are believed to be correct as of this date. Ventana Medical Systems, Inc. makes no warranty with respect to the content of this MSDS and disclaims all liability from reliance thereon. ultraView and Ventana are trademarks of Roche.

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