

a member of the Roche Group

Material Safety Data Sheet

Material Name: ultraView Universal Alkaline Phosphatase Red Fast Red A MSDS ID: 00232563

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

Manufacturer Information

VENTANA MEDICAL SYSTEMS INC. 1910 E. Innovation Park Drive

Tucson, AZ 85755 Phone: (520) 887-2155 EMERGENCY TELEPHONE NUMBER: (800) 424-9300 (USA/Canada)

CHEMTREC: +1 (703) 527-3887 (International)

Material Name: ultraView Universal Alkaline Phosphatase Red Fast Red A

Product Number(s)

253-4329, 760-501, 05262453001, 06099157001

Product Use

clinical/research

* * * Section 2 - Hazards Identification* * *

NFPA Ratings: Health: 1 Fire: 0 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

Color: red

Physical Form: liquid

Major Health Hazards: No significant target effects reported.

POTENTIAL HEALTH EFFECTS

Inhalation

Short Term: no information on significant adverse effects **Long Term:** no information on significant adverse effects

Skin

Short Term: allergic reactions

Long Term: no information on significant adverse effects

Eye

Short Term: no information on significant adverse effects **Long Term:** no information on significant adverse effects

Ingestion

Short Term: no information on significant adverse effects **Long Term:** no information on significant adverse effects

OSHA Regulatory Status

This material is not 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		
86780-25-8	Fast Red KL Salt	<1		
64-19-7	Acetic acid	<1	С	R:10-35
	200-580-7			

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55965-84-9	Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl-	<0.01	TN	R:23/24/25-34-
	with 2-methyl-3(2H)-isothiazolone			43-50/53

* * * 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

Negligible fire hazard.

Extinguishing Media

Use extinguishing agents appropriate for surrounding fire.

Fire Fighting Measures

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

* * * 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

Wash thoroughly after handling.

Storage Procedures

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

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

Exposure Limits

Acetic acid (64-19-7)

ACGIH: 10 ppm TWA

EEC:

15 ppm STEL

NIOSH: 10 ppm TWA; 25 mg/m3 TWA

15 ppm STEL; 37 mg/m3 STEL

50 ppm IDLH

OSHA: 10 ppm TWA; 25 mg/m3 TWA

10 ppm TWA; 25 mg/m3 TWA 10 ppm TWA; 25 mg/m3 TWA

Austria: 20 ppm STEL (8 X 5 min); 50 mg/m3 STEL (8 X 5 min)

10 ppm MAK; 25 mg/m3 MAK

Belgium: 15 ppm STEL; 38 mg/m3 STEL

10 ppm TWA; 25 mg/m3 TWA **Denmark:** 10 ppm TWA; 25 mg/m3 TWA

Denmark: 10 ppm TWA; 25 mg/m3 TWA Finland: 10 ppm STEL; 25 mg/m3 STEL 5 ppm TWA; 13 mg/m3 TWA

France: 10 ppm VLCT; 25 mg/m3 VLCT

Germany: 10 ppm TWA (exposure factor 2); 25 mg/m3 TWA (exposure factor 2)

Germany (DFG): 10 ppm MAK; 25 mg/m3 MAK 20 ppm Peak; 50 mg/m3 Peak

Greece: 15 ppm STEL; 37 mg/m3 STEL 10 ppm TWA; 25 mg/m3 TWA Ireland: 15 ppm STEL; 37 mg/m3 STEL

10 ppm TWA; 25 mg/m3 TWA

Japan 10 ppm OEL; 25 mg/m3 OEL

Portugal: 10 ppm TWA 15 ppm STEL

Spain: 15 ppm VLA-EC; 37 mg/m3 VLA-EC

10 ppm VLA-ED; 25 mg/m3 VLA-ED

Sweden: 5 ppm LLV; 13 mg/m3 LLV

10 ppm STV; 25 mg/m3 STV

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.

Respiratory Protection

No respirator is required under normal conditions of use.

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

Physical State: Liquid Appearance: Red liquid
Color: red Physical Form: liquid

Not available Odor Threshold: Odor: Not available **Melting/Freezing Point:** pH: 3.32 Not available **Boiling Point:** Not available Decomposition: Not available Flash Point: **Evaporation Rate:** Not available not flammable

LEL: Not available UEL: Not available Vapor Pressure: Not available Vapor Density (air = 1): Not available Specific Gravity (water = 1): Not available Density: 0.99 g/mL Water Solubility: Log KOW: Not available miscible

Coeff. Water/Oil Dist.: Not available Viscosity: Not available Volatility: Not available Volatility: Not available

* * * Section 10 - Stability and Reactivity* * *

Chemical Stability

Stable at normal temperatures and pressure.

Conditions to Avoid

None reported.

Materials to Avoid

None known.

Decomposition Products

miscellaneous decomposition products

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:

Acetic acid (64-19-7)

Inhalation LC50 Rat 11.4 mg/L 4 h; Oral LD50 Rat 3310 mg/kg; Dermal LD50 Rabbit 1060 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 no data as of the date on this document.

Acute Toxicity Level

Acetic acid (64-19-7)

Toxic: inhalation

Moderately Toxic: dermal absorption,ingestion

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

Toxic: ingestion

Irritation/Corrosivity

RTECS Irritation

The components of this material have been reviewed and RTECS publishes no data as of the date on this document.

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Local Effects

Fast Red KL Salt (86780-25-8)

Irritant: skin Acetic acid (64-19-7)

Corrosive: inhalation,skin,eye,ingestion

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

Corrosive: inhalation,skin,eye,ingestion

Target Organs

Fast Red KL Salt (86780-25-8)

immune system (sensitizer)

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

immune system (sensitizer)

Carcinogenicity

Component Carcinogenicity

Acetic acid (64-19-7)

Denmark: Present

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

Acetic acid (64-19-7)

Fish: 96 Hr LC50 Pimephales promelas: 79 mg/L [static]; 96 Hr LC50 Lepomis macrochirus:

75 mg/L [static]

Invertebrate: 24 Hr EC50 Daphnia magna: 47 mg/L; 48 Hr EC50 Daphnia magna: 65 mg/L [Static]

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

This material contains one or more of the following chemicals required to be identified under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Acetic acid (64-19-7)

CERCLA: 5000 lb final RQ; 2270 kg final RQ

SARA 311/312

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

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component / EC Number	CAS	CA	MA	MN	NJ	PA	RI
Acetic acid	64-19-7	Yes	Yes	Yes	Yes	Yes	Yes

California Proposition 65

Not regulated under California Proposition 65

Canadian Regulations

WHMIS Classification

Not a Controlled Product under Canada's Workplace Hazardous Material Information System.

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

Acetic acid (64-19-7)

ID Number 93, hazard class 1 - low hazard to waters (>25%)

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.

S37 Wear suitable gloves.

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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.

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

The following components are 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.

Acetic acid (64-19-7)

Flammable substance

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

R10 Flammable.

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

R34 Causes burns.

R35 Causes severe burns.

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

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