



a member of the Roche Group

### Material Safety Data Sheet

Material Name: CONFIRM anti-CD5 (SP19) Rabbit Monoclonal Primary Antibody

MSDS ID: VEN-026

**\*\*\* 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: CONFIRM anti-CD5 (SP19) Rabbit Monoclonal Primary Antibody**

**Product Number(s)**  
790-4451

**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**  
This material is not classified.

**EMERGENCY OVERVIEW**  
**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:** no information on significant adverse effects  
**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	---	---
122-51-0	Triethylorthoformate 204-550-4	<1	---	R:10
Mixture	ProClin 300 -	<1	Xi	R:43

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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.

### 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.

### Hazardous Combustion Products

miscellaneous decomposition 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. See original container for storage recommendations. 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 \*\*\*

<b>Physical State:</b>	Liquid	<b>Appearance:</b>	Not available
<b>Physical Form:</b>	liquid	<b>Odor:</b>	Not Available
<b>Odor Threshold:</b>	Not available	<b>pH:</b>	7.5
<b>Melting/Freezing Point:</b>	Not available	<b>Boiling Point:</b>	Not available
<b>Flash Point:</b>	not flammable	<b>Evaporation Rate:</b>	Not available
<b>Vapor Pressure:</b>	Not available	<b>Vapor Density (air = 1):</b>	Not available
<b>Density:</b>	Not available	<b>Specific Gravity (water = 1):</b>	Not available
<b>Water Solubility:</b>	miscible	<b>Coeff. Water/Oil Dist.:</b>	Not available
<b>Viscosity:</b>	Not available	<b>Volatility:</b>	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:

##### Triethylorthoformate (122-51-0)

Oral LD50 Rat: 7060 mg/kg; Dermal LD50 Rabbit: 20 mL/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

##### Triethylorthoformate (122-51-0)

**Moderately Toxic:** ingestion.

**Slightly Toxic:** dermal absorption.

##### Irritation/Corrosivity

No information on significant adverse effects.

##### RTECS Irritation

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

##### Carcinogenicity

##### Component Carcinogenicity

None of the substances in this preparation are listed by ACGIH, OSHA, NIOSH, NTP, IARC, Austria, Belgium, Denmark, France, Germany, Ireland, Netherlands, Spain, or United Kingdom.

##### Mutagenic

No information available.

##### Reproductive Effects

No information available.

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## Tumorigenic

No information available.

## Medical Conditions Aggravated by Exposure

None known.

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

#### Component Analysis - Aquatic Toxicity

##### Triethylorthoformate (122-51-0)

Fish: 48 Hr LC50 Leuciscus idus: 592 mg/L

#### Mobility

No information available.

#### Persistence & Degradation

No information available.

#### Bioaccumulative Potential

No information available.

### \*\*\* 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.

### \*\*\* 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: 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
Triethylorthoformate	122-51-0	No	Yes	No	Yes	Yes	No

#### 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.

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## 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

**Triethylorthoformate (122-51-0)**

Number 1195, hazard class 1 - low hazard to waters

## EU Marking and Labelling

This material is not classified.

## 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

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.

### 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.

**R43** May cause sensitization by skin contact.

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### 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.

**New MSDS: 09/01/2009**

End of Sheet VEN-026