



NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td>Health Hazard</td> <td>1</td> </tr> <tr> <td>Fire Hazard</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	Health Hazard	1	Fire Hazard	0	Reactivity	0		
Health Hazard	1								
Fire Hazard	0								
Reactivity	0								

Issuing Date 04-Feb-2008

Effective Date 01-Apr-2008

Revision Number A

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** xTAG RVP TSPE Mix  
**Product Code(s)** {R019A0105, R019A0109, R019C0106, R019C0110, R019E0108, R019E0112, R019D0107, R0190111 I019A0110, I019A0114, I019C0111, I019C0115, I019E0113, I019E0117, I019D0112, I019D0116} / MDR-ASP-60008-019-Q

**Recommended Use** For Use With xTAG RVP.

**Manufactured by:** Luminex  
 Molecular Diagnostics 439  
 University Avenue Toronto,  
 Ontario CANADA M5G 1Y8  
 TEL: (416) 593-4323

**Supplier Address** Luminex  
 Corporation 12212 Technology  
 Blvd Austin, TX 78727

TEL: (877) 785-2323 (US and Canada)  
 +(512) 381-4397 (International)

**Company Emergency Phone Number** (877) 785-2323

## 2. HAZARDS IDENTIFICATION

### CAUTION!

#### Emergency Overview

May cause eye irritation

**Appearance** Clear, colorless solution

**Physical State** Liquid

**Odor** Odorless

**OSHA Regulatory Status** This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Potential Health Effects****Principle Routes of Exposure** Skin contact, Eye contact.**Acute Toxicity****Eyes**

May cause irritation.

**Skin**

No known effect based on information supplied.

**Inhalation**

Not an expected route of exposure.

**Ingestion**

Not an expected route of exposure. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Chronic Effects**

No known effect based on information supplied.

**Aggravated Medical Conditions**

None known.

**Environmental Hazard**

See Section 12 for additional Ecological Information.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
Water	7732-18-5	60-100
Biotin	58-85-5	5-10
Synthetic Nucleic Acids (DNA Sequences)	Not Applicable	1-5
Guanosine 5'-(tetrahydrogen triphosphate), 2'-deoxy, trisodium salt	93919-41-6	<0.1
dCTP Sodium Salt	102783-57-7	<0.1
2'-deoxy-thymidine 5'-(tetrahydrogen triphosphate), tetrasodium salt	1927-31-7	<0.1
Thymidine 5'-(tetrahydrogen triphosphate), tetrasodium salt	3624-46-2	<0.1

**4. FIRST AID MEASURES****Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

**Skin Contact**

Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

**Inhalation**

Not expected. Move to fresh air in case of accidental inhalation of vapors or decomposition products. If symptoms persist, call a physician.

**Ingestion**

Do not induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.

**Notes to Physician**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Flammable Properties**

Not flammable.

**Flash Point**

Not applicable.

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Explosion Data Sensitivity to mechanical impact**

None.

**Sensitivity to static discharge** None.

**Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<b><u>NFPA</u></b>	<b>Health Hazard 1</b>	<b>Flammability 0</b>	<b>Stability 0</b>	<b>Physical and Chemical Hazards N/A</b>
<b><u>HMIS</u></b>	<b>Health Hazard 1</b>	<b>Flammability 0</b>	<b>Stability 0</b>	<b>Personal Precautions B</b>

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid contact with eyes. Use personal protective equipment.
<b>Methods for Containment</b>	Dike to collect large liquid spills. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent further leakage or spillage if safe to do so.
<b>Methods for Cleaning Up</b>	Soak up with inert absorbent material. Keep in suitable and closed containers for disposal.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes. Wear personal protective equipment.
<b>Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Guidelines</b>	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
<b>Engineering Measures</b>	Showers Eyewash stations Ventilation systems
<b>Personal Protective Equipment Eye/Face Protection Skin and Body Protection Respiratory Protection</b>	Safety glasses with side-shields. Protective gloves. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear, colorless solution	<b>Odor</b>	Odorless
<b>Odor Threshold</b>	No information available	<b>Physical State</b>	Liquid
<b>pH</b>	No information available		
<b>Flash Point</b>	Not applicable.	<b>Autoignition Temperature</b>	No information available
<b>Decomposition Temperature</b>	No information available	<b>Boiling Point/Range</b>	No information available
<b>Melting Point/Range</b>	No information available		
<b>Flammability Limits in Air</b>	No information available	<b>Explosion Limits</b>	No information available
<b>Water Solubility</b>	Soluble in water	<b>Solubility</b>	No information available
<b>Evaporation Rate</b>	No information available	<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No data available	<b>VOC Content</b>	Not applicable

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions.
<b>Incompatible Products</b>	Strong oxidizing agents.
<b>Conditions to Avoid</b>	None known based on information supplied.
<b>Hazardous Decomposition Products</b>	Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Nitrogen oxides (NO <sub>x</sub> ).
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	
<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information.
<b>Irritation</b>	May cause eye irritation.
<b>Chronic Toxicity</b>	<b>Chronic Toxicity</b> No known effect based on information supplied.
<b>Target Organ Effects</b>	None known.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Method**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging**

Dispose of in accordance with local regulations.

**14. TRANSPORT INFORMATION**

<b><u>DOT</u></b>	Not regulated
<b><u>TDG</u></b>	Not regulated
<b><u>MEX</u></b>	Not regulated
<b><u>ICAO</u></b>	Not regulated
<b><u>IATA</u></b>	Not regulated
<b><u>IMDG/IMO</u></b>	Not regulated
<b><u>RID</u></b>	Not regulated
<b><u>ADR</u></b>	Not regulated
<b><u>ADN</u></b>	Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

<b>TSCA</b>	Exempt
<b>DSL/NDSL</b>	Does not comply
<b>EINECS/ELINCS</b>	Does not Comply
<b>ENCS</b>	Does not Comply
<b>IECSC</b>	Does not Comply
<b>KECL</b>	Does not Comply
<b>PICCS</b>	Does not Comply
<b>AICS</b>	Does not Comply

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated by state right-to-know regulations.

**International Regulations**

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

Non-controlled

**16. OTHER INFORMATION**

<b>Issuing Date</b>	04-Feb-2008
<b>Revision Date</b>	
<b>Revision Note</b>	MSDS-109_ASP-001 Rev. A
<b>Disclaimer</b>	

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of MSDS**