



Viral RNA Extraction Kit (VR1010)

Binding/Lysis Buffer (VR1011)


Wash Buffer 1 (VR1012)

Wash Buffer 2 (VR1013)

Elution Buffer (VR1014)

Safety Data Sheet

SECTION 1. IDENTIFICATION OF SUBSTANCE/MIXTURE	
Product name	Binding/Lysis Buffer (VR1011)
Manufacturer/Supplier	Galenvs Sciences Inc. 24 Rue Gabrielle-Roy Montreal, QC, Canada H3E 1M3
Email	contact@galenvs.com
Emergency information	CHEMTREC USA & Canada 1-800-424-9300
Recommended use	Laboratory chemicals

SECTION 2. HAZARDS IDENTIFICATION	
GHS Classification:	
Skin irritation	Category 2
Eye irritation	Category 2A
Skin sensitization	Category 1
GHS Label element:	
Hazard pictograms	
Signal Word	Warning
Hazard Statements	H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation
Precautionary Statements	Prevention: P280 Wear protective gloves/protective clothing/eye protection/face protection
Potential Health Effects	Aggravated Medical Condition : None known
	Symptoms of Overexposure : No information available
Carcinogenicity:	
IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.
ACGIH	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS		
Substance/Mixture	Mixture	
Hazardous ingredients:		
Chemical Name	CAS-No.	Concentration [%]
Guanidine Hydrochloride	50-01-1	>=25 - <50
Isopropanol	67-63-0	>=25 - <50

SECTION 4. FIRST AID MEASURES	
General advice	Move out of dangerous area. Show this material safety data sheet to the doctor in attendance.
If inhaled	If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician
In case of skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	If accidentally swallowed obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.
Notes to physician	No information available.

SECTION 5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific hazards during fire fighting	Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	No hazardous combustion products are known.
Specific extinguishing methods	In the event of fire and/or explosion do not breath fumes.
Specific protective equipment for fire-fighters	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Ensure adequate ventilation. Avoid breathing dust/fume/ gas/mist/vapours/spray.
Environmental precautions	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so
Methods and materials for containment and cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE	
Advice on safe handling	Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Ingredients with workplace control parameters	Contains no substances with occupational exposure limit values.
Personal protective equipment:	
Respiratory protection	In the case of vapor formation use a respirator with an approved filter.
Hand protection Remarks	The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Material	Protective gloves
Eye protection	Safety glasses. Wear face-shield and protective suit for abnormal processing problems. Ensure that eyewash stations and safety showers are close to the workstation location.
Skin and body protection	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals
Hygiene measures	Keep away from food and drink. Wash hands before breaks and at the end of workday. Ensure adequate ventilation, especially in confined areas. Keep working clothes separately. Avoid contact with the skin and the eyes. When using do not eat, drink or smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	Liquid
Colour	No data available
Odor	Characteristic
Odor Threshold	No data available
pH	6
Melting point/range	No data available
Boiling point/range	No data available
Flash point	No data available
Evaporation rate	No data available
Burning rate	No data available
Upper explosion limit	No data available

Lower explosion limit	No data available
Vapor pressure	No data available
Relative vapor density	No data available
Relative density	No data available
Density	1.16 g/cm ³
Solubility (ies):	
Water solubility	No data available
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition temperature	Not determined
Thermal decomposition	No data available
Viscosity	No data available
Viscosity, dynamic	No data available
Viscosity, kinematic	No data available
Explosive properties	No data available
Oxidizing properties	No data available

SECTION 10. STABILITY AND REACTIVITY	
Reactivity	No decomposition if stored and applied as directed.
Chemical stability	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions. Keep away from oxidizing agents, and acidic or alkaline products.
Conditions to avoid	No data available
Incompatible materials	No data available
Hazardous decomposition products	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION	
Acute toxicity:	
Acute oral toxicity	Guanidine hydrochloride: LD50 Oral Rat: 1,120 mg/kg
Acute inhalation toxicity	No data available
Acute dermal toxicity	No data available
Skin corrosion/irritation	May cause skin irritation and/or dermatitis.
Serious eye damage/eye irritation	May cause irreversible eye damage.
Respiratory or skin sensitization	Causes sensitization
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available

Aspiration toxicity	No data available
Further information	No data available

SECTION 12. ECOLOGICAL INFORMATION	
Ecotoxicity	
Toxicity to fish	No data available
Toxicity to algae	No data available
Toxicity to bacteria	No data available
Persistence and degradability	
Guanidine hydrochloride	Method: OECD Test Guideline 301C Remarks: According to the results of tests of biodegradability this product is not readily biodegradable.
Bioaccumulative potential:	
Bioaccumulation	No data available
Partition coefficient: n-octanol/water	Guanidine hydrochloride: log Pow: ca. -1.7 (20 °C)
Mobility in soil	No data available
Other adverse effects	No data available
Viscosity	No data available
Viscosity, dynamic	No data available
Viscosity, kinematic	No data available
Explosive properties	No data available
Oxidizing properties	No data available

SECTION 13. DISPOSAL CONSIDERATIONS	
Disposal methods:	
Waste from residues	Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations.
Contaminated packaging	Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION	
UNRTDG	Not regulated as a dangerous good
IATA-DGR	Not regulated as a dangerous good
IMDG-Code	Not regulated as a dangerous good
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No data available
Domestic regulation	
49CFR	Not regulated as a dangerous good
Special precautions for user	
Remarks	Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION	
OSHA Hazards	Toxic by ingestion
EPCRA – Emergency Planning and Community Right-to-Know	
SARA 304 Extremely Hazardous Substances Reportable Quantity	N/A
SARA 411/312 Hazards	No SARA Hazards
SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
US State Regulations	
California Prop 65	This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

SECTION 16. OTHER INFORMATION
The information provided in this Material Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

Safety Data Sheet

SECTION 1. IDENTIFICATION OF SUBSTANCE/MIXTURE	
Product name	Wash Buffer 1 (VR1012)
Manufacturer/Supplier	Galenvs Sciences Inc. 24 Rue Gabrielle-Roy Montreal, QC, Canada H3E 1M3
Email	contact@galenvs.com
Emergency information	CHEMTREC USA & Canada 1-800-424-9300
Recommended use	Laboratory chemicals

SECTION 2. HAZARDS IDENTIFICATION		
GHS Classification	Not a hazardous substance or mixture.	
GHS Label element	Not a hazardous substance or mixture.	
Potential Health Effects	Aggravated Medical Condition :	None known
	Symptoms of Overexposure :	No information available
Carcinogenicity:		
IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.	
ACGIH	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.	
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.	
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS	
Substance/Mixture	Mixture
Hazardous ingredients	No hazardous ingredients

SECTION 4. FIRST AID MEASURES	
General advice	Show this material safety data sheet to the doctor in attendance.
If inhaled	Move to fresh air. If symptoms persist, call a physician.
In case of skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	If accidentally swallowed obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed	No information available.
Notes to physician	No information available.

SECTION 5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards during fire fighting	Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	No hazardous combustion products are known.
Specific extinguishing methods	In the event of fire and/or explosion do not breath fumes.
Specific protective equipment for fire-fighters	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.
Methods and materials for containment and cleaning up	Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE	
Advice on safe handling	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Ingredients with workplace control parameters	Contains no substances with occupational exposure limit values.
Personal protective equipment:	
Hand protection Remarks	The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	Safety glasses
Skin and body protection	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals
Hygiene measures	Keep away from food and drink. When using do not eat, drink or smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	Liquid

Colour	No data available
Odor	Characteristic
Odor Threshold	No data available
pH	7.5
Melting point/range	No data available
Boiling point/range	No data available
Flash point	No data available
Evaporation rate	No data available
Burning rate	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapor pressure	No data available
Relative vapor density	No data available
Relative density	No data available
Density	1.01 g/cm ³
Solubility (ies):	
Water solubility	No data available
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition temperature	Not determined
Thermal decomposition	No data available
Viscosity	No data available
Viscosity, dynamic	No data available
Viscosity, kinematic	No data available
Explosive properties	No data available
Oxidizing properties	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	No decomposition if stored and applied as directed.
Chemical stability	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions
Conditions to avoid	No data available
Incompatible materials	No data available
Hazardous decomposition products	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity:	
Acute oral toxicity	No data available
Acute inhalation toxicity	No data available

Acute dermal toxicity	No data available
Skin corrosion/irritation	May cause skin irritation in susceptible persons.
Serious eye damage/eye irritation	May irritate eyes
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration toxicity	No data available
Further information	No data available

SECTION 12. ECOLOGICAL INFORMATION	
Ecotoxicity	
Toxicity to fish	No data available
Toxicity to algae	No data available
Toxicity to bacteria	No data available
Persistence and degradability	No data available
Bioaccumulative potential:	
Bioaccumulation	No data available
Partition coefficient: n-octanol/water	No data available
Mobility in soil	No data available
Other adverse effects	No data available
Viscosity	No data available
Viscosity, dynamic	No data available
Viscosity, kinematic	No data available
Explosive properties	No data available
Oxidizing properties	No data available

SECTION 13. DISPOSAL CONSIDERATIONS	
Disposal methods:	
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION	
UNRTDG	Not regulated as a dangerous good
IATA-DGR	Not regulated as a dangerous good
IMDG-Code	Not regulated as a dangerous good
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No data available
Domestic regulation	
49CFR	Not regulated as a dangerous good
Special precautions for user	

Remarks	Not classified as dangerous in the meaning of transport regulations.
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SECTION 15. REGULATORY INFORMATION	
OSHA Hazards	No OSHA Hazards
EPCRA – Emergency Planning and Community Right-to-Know	
SARA 304 Extremely Hazardous Substances Reportable Quantity	N/A
SARA 411/312 Hazards	No SARA Hazards
SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
US State Regulations	
California Prop 65	This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

SECTION 16. OTHER INFORMATION
The information provided in this Material Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

Safety Data Sheet

SECTION 1. IDENTIFICATION OF SUBSTANCE/MIXTURE	
Product name	Wash Buffer 2 (VR1013)
Manufacturer/Supplier	Galenvs Sciences Inc. 24 Rue Gabrielle-Roy Montreal, QC, Canada H3E 1M3
Email	contact@galenvs.com
Emergency information	CHEMTREC USA & Canada 1-800-424-9300
Recommended use	Laboratory chemicals

SECTION 2. HAZARDS IDENTIFICATION		
GHS Classification	Not a hazardous substance or mixture.	
GHS Label element	Not a hazardous substance or mixture.	
Potential Health Effects	Aggravated Medical Condition :	None known
	Symptoms of Overexposure :	No information available
Carcinogenicity:		
IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.	
ACGIH	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.	
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.	
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS	
Substance/Mixture	Mixture
Hazardous ingredients	No hazardous ingredients

SECTION 4. FIRST AID MEASURES	
General advice	Show this material safety data sheet to the doctor in attendance.
If inhaled	Move to fresh air. If symptoms persist, call a physician.
In case of skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	If accidentally swallowed obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed	No information available.
Notes to physician	No information available.

SECTION 5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards during fire fighting	Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	No hazardous combustion products are known.
Specific extinguishing methods	In the event of fire and/or explosion do not breath fumes.
Specific protective equipment for fire-fighters	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.
Methods and materials for containment and cleaning up	Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE	
Advice on safe handling	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Ingredients with workplace control parameters	Contains no substances with occupational exposure limit values.
Personal protective equipment:	
Hand protection Remarks	The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	Safety glasses
Skin and body protection	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals
Hygiene measures	Keep away from food and drink. When using do not eat, drink or smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	Liquid

Colour	No data available
Odor	Characteristic
Odor Threshold	No data available
pH	7.5
Melting point/range	No data available
Boiling point/range	No data available
Flash point	No data available
Evaporation rate	No data available
Burning rate	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapor pressure	No data available
Relative vapor density	No data available
Relative density	No data available
Density	1.01 g/cm ³
Solubility (ies):	
Water solubility	No data available
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition temperature	Not determined
Thermal decomposition	No data available
Viscosity	No data available
Viscosity, dynamic	No data available
Viscosity, kinematic	No data available
Explosive properties	No data available
Oxidizing properties	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	No decomposition if stored and applied as directed.
Chemical stability	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions
Conditions to avoid	No data available
Incompatible materials	No data available
Hazardous decomposition products	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity:	
Acute oral toxicity	No data available
Acute inhalation toxicity	No data available

Acute dermal toxicity	No data available
Skin corrosion/irritation	May cause skin irritation in susceptible persons.
Serious eye damage/eye irritation	May irritate eyes
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration toxicity	No data available
Further information	No data available

SECTION 12. ECOLOGICAL INFORMATION	
Ecotoxicity	
Toxicity to fish	No data available
Toxicity to algae	No data available
Toxicity to bacteria	No data available
Persistence and degradability	No data available
Bioaccumulative potential:	
Bioaccumulation	No data available
Partition coefficient: n-octanol/water	No data available
Mobility in soil	No data available
Other adverse effects	No data available
Viscosity	No data available
Viscosity, dynamic	No data available
Viscosity, kinematic	No data available
Explosive properties	No data available
Oxidizing properties	No data available

SECTION 13. DISPOSAL CONSIDERATIONS	
Disposal methods:	
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION	
UNRTDG	Not regulated as a dangerous good
IATA-DGR	Not regulated as a dangerous good
IMDG-Code	Not regulated as a dangerous good
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No data available
Domestic regulation	
49CFR	Not regulated as a dangerous good
Special precautions for user	

Remarks	Not classified as dangerous in the meaning of transport regulations.
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SECTION 15. REGULATORY INFORMATION	
OSHA Hazards	No OSHA Hazards
EPCRA – Emergency Planning and Community Right-to-Know	
SARA 304 Extremely Hazardous Substances Reportable Quantity	N/A
SARA 411/312 Hazards	No SARA Hazards
SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
US State Regulations	
California Prop 65	This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

SECTION 16. OTHER INFORMATION
The information provided in this Material Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

Safety Data Sheet

SECTION 1. IDENTIFICATION OF SUBSTANCE/MIXTURE	
Product name	Elution Buffer (VR1014)
Manufacturer/Supplier	Galenvs Sciences Inc. 24 Rue Gabrielle-Roy Montreal, QC, Canada H3E 1M3
Email	contact@galenvs.com
Emergency information	CHEMTREC USA & Canada 1-800-424-9300
Recommended use	Laboratory chemicals

SECTION 2. HAZARDS IDENTIFICATION		
GHS Classification	Not a hazardous substance or mixture.	
GHS Label element	Not a hazardous substance or mixture.	
Potential Health Effects	Aggravated Medical Condition :	None known
	Symptoms of Overexposure :	No information available
Carcinogenicity:		
IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.	
ACGIH	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.	
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.	
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS	
Substance/Mixture	Mixture
Hazardous ingredients	No hazardous ingredients

SECTION 4. FIRST AID MEASURES	
General advice	Show this material safety data sheet to the doctor in attendance.
If inhaled	Move to fresh air. If symptoms persist, call a physician.
In case of skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	If accidentally swallowed obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed	No information available.
Notes to physician	No information available.

SECTION 5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards during fire fighting	Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	No hazardous combustion products are known.
Specific extinguishing methods	In the event of fire and/or explosion do not breath fumes.
Specific protective equipment for fire-fighters	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.
Methods and materials for containment and cleaning up	Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE	
Advice on safe handling	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Ingredients with workplace control parameters	Contains no substances with occupational exposure limit values.
Personal protective equipment:	
Hand protection Remarks	The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	Safety glasses
Skin and body protection	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals
Hygiene measures	Keep away from food and drink. When using do not eat, drink or smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	Liquid

Colour	No data available
Odor	Characteristic
Odor Threshold	No data available
pH	7.5
Melting point/range	No data available
Boiling point/range	No data available
Flash point	No data available
Evaporation rate	No data available
Burning rate	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapor pressure	No data available
Relative vapor density	No data available
Relative density	No data available
Density	1.01 g/cm ³
Solubility (ies):	
Water solubility	No data available
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition temperature	Not determined
Thermal decomposition	No data available
Viscosity	No data available
Viscosity, dynamic	No data available
Viscosity, kinematic	No data available
Explosive properties	No data available
Oxidizing properties	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	No decomposition if stored and applied as directed.
Chemical stability	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions
Conditions to avoid	No data available
Incompatible materials	No data available
Hazardous decomposition products	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity:	
Acute oral toxicity	No data available
Acute inhalation toxicity	No data available

Acute dermal toxicity	No data available
Skin corrosion/irritation	May cause skin irritation in susceptible persons.
Serious eye damage/eye irritation	May irritate eyes
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration toxicity	No data available
Further information	No data available

SECTION 12. ECOLOGICAL INFORMATION	
Ecotoxicity	
Toxicity to fish	No data available
Toxicity to algae	No data available
Toxicity to bacteria	No data available
Persistence and degradability	No data available
Bioaccumulative potential:	
Bioaccumulation	No data available
Partition coefficient: n-octanol/water	No data available
Mobility in soil	No data available
Other adverse effects	No data available
Viscosity	No data available
Viscosity, dynamic	No data available
Viscosity, kinematic	No data available
Explosive properties	No data available
Oxidizing properties	No data available

SECTION 13. DISPOSAL CONSIDERATIONS	
Disposal methods:	
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION	
UNRTDG	Not regulated as a dangerous good
IATA-DGR	Not regulated as a dangerous good
IMDG-Code	Not regulated as a dangerous good
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No data available
Domestic regulation	
49CFR	Not regulated as a dangerous good
Special precautions for user	

Remarks	Not classified as dangerous in the meaning of transport regulations.
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SECTION 15. REGULATORY INFORMATION	
OSHA Hazards	No OSHA Hazards
EPCRA – Emergency Planning and Community Right-to-Know	
SARA 304 Extremely Hazardous Substances Reportable Quantity	N/A
SARA 411/312 Hazards	No SARA Hazards
SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
US State Regulations	
California Prop 65	This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

SECTION 16. OTHER INFORMATION
The information provided in this Material Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.