Safety Data Sheet acc. to OSHA HCS

Printing date 02/10/2015

Reviewed on 02/09/2015

1 Identification

- · Product identifier
- · Trade name: Negative Control
- · Catalog or product number: 1932
- Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Bio-Rad Laboratories, Life Science Group 2000 Alfred Nobel Drive Hercules, California 94547

(510)741-1000

- Information department: Technical services, customer support lsg techserv us@bio-rad.com
- Emergency telephone number: 1(800)424-9300 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT. 510-741-1000

2 Hazard(s) identification

· Classification of the substance or mixture

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Irritant to skin.

Xn; Harmful

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· Classification system:

The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

The classification was made according to OSHA 29CFR 1910.1200 and 1910.1030, and is expanded upon from company and/or literature information.

· Label elements

• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



· Signal word Danger

Safety Data Sheet acc. to OSHA HCS

Printing date 02/10/2015

Reviewed on 02/09/2015

Trade name: Negative Control

(Contd. of page 1) · Hazard-determining components of labeling: Thimerosal · Hazard statements H301 Toxic if swallowed. H312+H332 Harmful in contact with skin or if inhaled. · Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapors/spray Wear protective gloves / protective clothing. P280 P301+P312 If swallowed: Call a poison center/doctor if you feel unwell. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · Additional information: Contact with acids may cause release of toxic gases · Emergency overview: · Routes of exposure: Ingestion Inhalation Skin · Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. **3 Composition/information on ingredients** · Chemical characterization: Substances · CAS No. Description: 7732-18-5 water Identification number(s): · EC number: 231-791-2 · Chemical characterization: Mixtures · Description: Mixture of the substances listed below with non-hazardous additions. · Listing of dangerous and non-hazardous components: 54-64-8 Thimerosal T+ R26/27/28 0.1-1.0% R33 ·SVHC 9002-93-1 Triton X-100 • Additional information For the wording of the listed risk phrases refer to section 15. 4 First-aid measures

- · Description of first aid measures
- · General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

(Contd. on page 3)

Safety Data Sheet acc. to OSHA HCS

Printing date 02/10/2015

Trade name: Negative Control

Reviewed on 02/09/2015

(Contd. of page 2)

- · After skin contact Generally the product does not irritate the skin.
- · After eye contact Rinse opened eye for several minutes under running water.
- · After swallowing Immediately call a doctor.
- · Most important symptoms and effects, both acute and delayed Breathing difficulty
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: Mount respiratory protective device.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- · Environmental precautions: Dilute with plenty of water.
- Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

(Contd. on page 4)

USA

Safety Data Sheet acc. to OSHA HCS

Printing date 02/10/2015

· Solvent content: Organic solvents:

0.0 %

Reviewed on 02/09/2015

	trol parameters	
· Com		s that require monitoring at the workplace:
	4-8 Thimerosal	
REL	Short-term value: C 0.1 m	ng/m³
TLV	0.1 mg/m ³	
	Skin; BEI	
· Add	litional information: The li	sts that were valid during the creation were used as basis.
 Pers Gen Keep Was Avoi Brea In ca prote Prot Mate The 	ective device that is indepe tection of hands: Protectiv erial of gloves Synthetic g etration time of glove ma exact break through time h	nic measures verages and feed. I at the end of work. I skin. I pollution use respiratory filter device. In case of intensive or longer exposure use respiratory ndent of circulating air. Ve gloves. Ioves
-	protection: Safety glasses	S
9 Phy • Infoi • Gen	/sical and chemical p rmation on basic physica eral Information	S
• Infoi • Gen • App	/sical and chemical p	roperties
Phy Infoi Gen App Fo Co	/sical and chemical p rmation on basic physica eeral Information earance: orm: blor:	roperties I and chemical properties Liquid Colorless
Phy Infoi Gen App Fo Co	/sical and chemical p rmation on basic physica eeral Information earance: orm: blor:	roperties I and chemical properties
Phy Infoi Gen App Co Co	/sical and chemical p rmation on basic physica eeral Information earance: orm: blor:	roperties I and chemical properties Liquid Colorless
 Phy Information Generation App Fo Co Co Odo pH-v Me 	/sical and chemical p rmation on basic physica eral Information earance: orm: blor:	s roperties I and chemical properties Liquid Colorless Odorless 7.4 : 0 °C
• Infoi • Gen • App Fo Cc • Odo • DH-v • Cha Bo	/sical and chemical p rmation on basic physica eral Information earance: orm: olor: or: value at 20 °C: nge in condition elting point/Melting range	s roperties I and chemical properties Liquid Colorless Odorless 7.4 : 0 °C
• Infoi • Gen • App Fo Cc • Odo • DH-v • Chai Bo • Flas	/sical and chemical p rmation on basic physica eeral Information earance: orm: olor: or: value at 20 °C: nge in condition elting point/Melting range oiling point/Boiling range	roperties I and chemical properties Liquid Colorless Odorless 7.4 : 0 °C : undetermined
Phy Infoi Gen Gen Fo Co Odo PH-v Cha Me Bo So Bo	/sical and chemical p rmation on basic physica eral Information earance: orm: olor: or: value at 20 °C: nge in condition elting point/Melting range oiling point/Boiling range:	s roperties I and chemical properties Liquid Colorless Odorless 7.4 : 0 °C : undetermined Not applicable
 Phy Infoi Gen App Fo Cc Odo pH-v Chai Chai Flas Dang Vape 	/sical and chemical p rmation on basic physica eeral Information eerance: orm: olor: or: value at 20 °C: nge in condition elting point/Melting range biling point/Boiling range: sh point: ger of explosion:	S I and chemical properties Liquid Colorless Odorless Odorless 7.4 : 0 °C : undetermined Not applicable Product does not present an explosion hazard.

(Contd. on page 5)

Page 4/7

Safety Data Sheet acc. to OSHA HCS

Printing date 02/10/2015

Reviewed on 02/09/2015

Trade name: Negative Control

		(Contd. of page 4)
Water:	96.3 %	
Solids content: • Other information	100.0 % No further relevant information available.	

10 Stability and reactivity

· Reactivity

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: No irritant effect.
- on the eye: No irritant effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

• **Target organs:** Skin. Respiratory tract.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Generally not hazardous for water.

(Contd. on page 6)

Page 5/7

Safety Data Sheet acc. to OSHA HCS

Printing date 02/10/2015

Reviewed on 02/09/2015

Trade name: Negative Control

(Contd. of page 5)

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

· vPvB: Not applicable.

· Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods
 Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information · UN-Number · DOT, ADR, ADN, IMDG, IATA Void · UN proper shipping name · DOT, ADR, ADN, IMDG, IATA Void · Transport hazard class(es) · DOT, ADR, ADN, IMDG, IATA · Class Void · Packing group · DOT, ADR, IMDG, IATA Void · Environmental hazards: · Marine pollutant: No · Special precautions for user Not applicable. · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · UN "Model Regulation": _

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture • SARA (Superfund Amendents and Reauthorization Act of 1986 - USA)

Section 302/304 (40CFR355.30 / 40CFR355.40):

None of the ingredients is listed.

Section 313 (40CFR372.65):

54-64-8 Thimerosal

(Contd. on page 7)

USA

Page 6/7

Safety Data Sheet acc. to OSHA HCS

Printing date 02/10/2015

Reviewed on 02/09/2015

0.....

Trade name: Negative Control

 TSCA (Toxic Substances Control Act): 7732-18-5 water 9002-93-1 Triton X-100 7647-14-5 sodium chloride 77-86-1 Tris(hydroxymethyl)aminomethane 54-64-8 Thimerosal 9000-71-9 Casein from bovine milk Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed. MAK (German Maximum Workplace Concentration) 		(Contd. of page
9002-93-1Triton X-1007647-14-5sodium chloride77-86-1Tris(hydroxymethyl)aminomethane54-64-8Thimerosal9000-71-9Casein from bovine milk• Carcinogenic categories• EPA (Environmental Protection Agency)None of the ingredients is listed.• TLV (Threshold Limit Value established by ACGIH)None of the ingredients is listed.• MAK (German Maximum Workplace Concentration)	TSCA (Tox	cic Substances Control Act):
7647-14-5 sodium chloride 77-86-1 Tris(hydroxymethyl)aminomethane 54-64-8 Thimerosal 9000-71-9 Casein from bovine milk • Carcinogenic categories • • Carcinogenic categories • • EPA (Environmental Protection Agency) None of the ingredients is listed. • TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed. • MAK (German Maximum Workplace Concentration) •	7732-18-5	water
77-86-1 Tris(hydroxymethyl)aminomethane 54-64-8 Thimerosal 9000-71-9 Casein from bovine milk • Carcinogenic categories • EPA (Environmental Protection Agency) None of the ingredients is listed. • TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed. • MAK (German Maximum Workplace Concentration)	9002-93-1	Triton X-100
54-64-8 Thimerosal 9000-71-9 Casein from bovine milk • Carcinogenic categories • • EPA (Environmental Protection Agency) • None of the ingredients is listed. • • TLV (Threshold Limit Value established by ACGIH) • None of the ingredients is listed. • • MAK (German Maximum Workplace Concentration) •	7647-14-5	sodium chloride
9000-71-9 Casein from bovine milk • Carcinogenic categories • EPA (Environmental Protection Agency) None of the ingredients is listed. • TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed. • MAK (German Maximum Workplace Concentration)	77-86-1	Tris(hydroxymethyl)aminomethane
Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed. MAK (German Maximum Workplace Concentration)	54-64-8	Thimerosal
EPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed. MAK (German Maximum Workplace Concentration)	9000-71-9	Casein from bovine milk
None of the ingredients is listed. TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed. MAK (German Maximum Workplace Concentration)	Carcinoge	nic categories
TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed. MAK (German Maximum Workplace Concentration)	EPA (Envi	ronmental Protection Agency)
None of the ingredients is listed. MAK (German Maximum Workplace Concentration)	None of the	e ingredients is listed.
MAK (German Maximum Workplace Concentration)	TLV (Three	shold Limit Value established by ACGIH)
	None of the	e ingredients is listed.
	MAK (Gerr	nan Maximum Workplace Concentration)
None of the ingredients is listed.	None of the	e ingredients is listed.
NIOSH-Ca (National Institute for Occupational Safety and Health)	NIOSH-Ca	(National Institute for Occupational Safety and Health)
None of the ingredients is listed.		

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environmental Health and Safety.

· Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000 · Date of preparation / last revision 02/10/2015 / -

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

Acute Tox. 3: Acute toxicity, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

• * Data compared to the previous version altered.

USA -