Printing date 09/08/2007 Reviewed on 09/06/2007

1 Identification of substance:

- · Product details:
- · Trade name: qUAntify Control, Level 2
- · Catalog or product number: 977
- · Application of the substance / the preparation In-vitro laboratory reagent or component
- · Manufacturer/Supplier:

Bio-Rad Laboratories, Diagnostic Group

9500 Jeronimo Road

Irvine, California 92618-2017

1(949) 598-1200

- · Information department: Technical services, customer support.
- · Emergency information:

1(800) 424-9300 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION, or ACCIDENT.

2 Composition/Information on components:

- · Chemical characterization:
- · CAS No. Description:

7732-18-5 water

- · Identification number(s):
- **EINECS Number:** 231-791-2
- · Additional information:

Contains added constituents of animal origin.

Contains human sourced and/or potentially infectious components.

· Chemical characterization

· Listing of dangerous and non-hazardous components:		
	disodium tetraborate, anhydrous	0.1-1.0%
EINECS: 215-540-4		
RTECS: VZ 2275000		
CAS: 57-13-6	urea	0.01-0.1%
EINECS: 200-315-5		
RTECS: YR 6250000		

3 Hazards identification

- · Emergency overview: not applicable
- · Routes of exposure:

Ingestion

Inhalation

Skin

- · Information pertaining to particular dangers for man and environment not applicable
- · Classification system
- · NFPA ratings (scale 0-4)

Health = 0

Fire = 0

Reactivity = 0

- · OSHA hazard ratings
- · Health 0: Minimal Hazard.
- · Fire 0: Minimal hazard.
- · Reactivity 0: Minimal hazard.

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· Special hazards Contains human sourced and/or potentially infectious components.

4 First aid measures

- · General information No special measures required.
- · After inhalation Supply fresh air; consult doctor in case of complaints.
- · After skin contact

Immediately wash with water and soap and rinse thoroughly.

Generally the product does not irritate the skin.

- · After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing Rinse mouth with water. Seek medical attention and appropriate follow-up.
- · Information for doctor
- · The following symptoms may occur:

Skin irritation

Eye irritation

5 Fire fighting measures

- · Suitable extinguishing agents CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Person-related safety precautions: Handle as potentially infectious.
- · Measures for environmental protection:

Keep contaminated washing water and dispose of appropriately.

Dilute with plenty of water.

· Measures for cleaning/collecting:

Absorb liquid components with liquid-binding material.

Pick up mechanically.

Clean the affected area carefully; suitable cleaners are:

Disinfectant

Dispose contaminated material as waste according to item 13.

· Additional information: No dangerous substances are released.

7 Handling and storage

- · Handling
- Information for safe handling: No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: No special measures required.
- · 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: None.

8 Exposure controls and personal protection

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

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		(Contd. of page 2	
· Compon	Components with limit values that require monitoring at the workplace:		
1330-43-4 disodium tetraborate, anhydrous			
REL()	1 mg/m^3		
TLV()	Short-term value: NIC-6 I ppm		
	Long-term value: NIC-2 I ppm		
	NIC-A4		
67-64-1	67-64-1 acetone		
PEL ()	2400 mg/m³, 1000 ppm		
REL()	590 mg/m³, 250 ppm		
TLV()	Short-term value: 1782 mg/m³, 750 ppm		
	Long-term value: 1188 mg/m³, 500 ppm		
	BEI		
26628-2	22-8 sodium azide		
REL ()	Short-term value: C 0.3** mg/m³, C 0.1* ppm		
	*as HN3 vapor; **as NaN3		
TLV()	Short-term value: C 0.29** mg/m³, C 0.11* ppm		
	*as HN3 vapor; **as NaN3		
7647-01	-0 hydrochloric acid		
PEL ()	Short-term value: C 7 mg/m³, C 5 ppm		
REL()	Short-term value: C 7 mg/m³, C 5 ppm		
TLV()	Short-term value: C 2.98 mg/m³, C 2 ppm		
57-13-6	urea		
WEEL (10 mg/m^3		
	nal information: The lists that were valid during the creation were used as basis.		

- **Additional information:** The lists that were valid during the creation were used as basis.
- · Personal protective equipment
- · General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

Follow the usual biosafety practices for handling potentially infectious materials.

- · Breathing equipment: Not required.
- · Protection of hands: Protective gloves.
- · Material of gloves Synthetic gloves
- · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- · Eye protection: Safety glasses
- · Body protection: Protective work clothing.

9 Physical and chemical properties:			
· General Information			
Form:	liquid		
Color:	Light yellow		
Odor:	Odorless		
· Change in condition			
Melting point/Melting	range: 0°C		
Boiling point/Boiling			
· Flash point:	Not applicable		
		(Contd. on moon	

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	(Contd. of page
· Danger of explosion:	Product does not present an explosion hazard.
· Vapor pressure at 20°C:	23 hPa
· Density at 20°C:	1 g/cm^3
· Solubility in / Miscibility with Water:	Fully miscible
· pH-value at 20°C: · Organic solvents: · Water:	5.0 - 6.0 0.5 % 97.4 %
· Solids content:	2.0 %

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Dangerous reactions No dangerous reactions known
- · Dangerous products of decomposition: No dangerous decomposition products known

11 Toxicological information

- · 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:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

12 Ecological information:

· General notes: Generally not hazardous for water.

13 Disposal considerations

- · Product:
- · Recommendation Dispose of waste in accordance to applicable national, regional, or local regulations.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

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26628-22-8 sodium azide

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14 Transport information			
· DOT regulations: · Hazard class:			
· Land transport ADR/RID (cross-border) · ADR/RID class: -			
· Maritime transport IMDG: · IMDG Class: · Marine pollutant: No			
· Air transport ICAO-TI and IATA-DGR: · ICAO/IATA Class: -			
· Transport/Additional information: Not dangerous according to the above specifications.			
15 Regulations			
· SARA (Superfund Amendents and Reauthorization Act of 1986 - USA)			
· Section 302/304 (40CFR355.30 / 40CFR355.40):			
Substance not listed.			
· Section 313 (40CFR372.65):			
Substance is not listed.			
· TSCA (Toxic Substances Control Act):			
7732-18-5 water			
1330-43-4 disodium tetraborate, anhydrous			
67-64-1 acetone			
50-99-7 glucose			
60-27-5 Creatinine			
9048-46-8 Bovine Serum Albumin			
100-51-6 Benzyl alcohol			
26628-22-8 sodium azide			
7647-01-0 hydrochloric acid			
9026-00-0 Esterase, cholesterol			
57-13-6 urea			
1310-73-2 sodium hydroxide			
· Cancerogenity categories			
· EPA (Environmental Protection Agency)			
67-64-1 acetone D			
· IARC (International Agency for Research on Cancer)			
7647-01-0 hydrochloric acid 3			
· NTP (National Toxicology Program)			
Substance is not listed.			
· TLV (Threshold Limit Value established by ACGIH)			
67-64-1 acetone	A4		

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· MAK (German Maximum Workplace Concentration)

Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

· Markings according to EU guidelines:

Observe the general safety regulations when handling chemicals

The substance is not subject to classification according to EU lists and other sources of literature known to us.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (GefStoffV).

· Safety phrases:

35 This material and its container must be disposed of in a safe way.

· National regulations

Class	Share in %
NK	0.1-1.0

· Water hazard class: Generally not hazardous for water.

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 MSDS: 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

· * Data compared to the previous version altered.

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