# Safety Data Sheet acc. to OSHA HCS

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Printing date 05/26/2015 Reviewed on 05/26/2015 1 Identification · Product identifier · Trade name: Liquid Unassayed Multiqual® · Catalog or product number: 697, 698, 699, 698X, 327, 328, 329, 328X Relevant identified uses of the substance or mixture and uses advised against · Sector of Use SU20 Health services · Application of the substance / the mixture In-vitro laboratory reagent or component · Details of the supplier of the safety data sheet · 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 telephone number: 1(800) 424-9300 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION, or ACCIDENT. 2 Hazard(s) identification

### · Classification of the substance or mixture

Carc. 1A H350 May cause cancer.

- · Label elements
- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



· Signal word Danger

- Hazard-determining components of labeling: ethanol
- Hazard statements H350 May cause cancer.
- · Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

- Emergency overview:
- **Routes of exposure:** Ingestion Inhalation Skin
- Classification system
- NFPA ratings (scale 0-4)

Health = 0Fire = 0 Reactivity = 0

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• **Special Hazards** Contains human sourced and/or potentially infectious components.

· Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

### 3 Composition/information on ingredients

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· Chemical characterization: Mixtures
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· Description: Mixture of the substances listed below with non-hazardous additions.

### · Listing of dangerous and non-hazardous components:

EINECS: 268-338-3	Human Source Material	50-100%
	Proprietary Reagent KK	2.5-5%
CAS: 57-13-6 EINECS: 200-315-5	urea	0.1-1.0%
CAS: 7646-85-7 EINECS: 231-592-0	zinc chloride	.00101%

#### · Additional information

Contains human sourced and/or potentially infectious components. Contains added constituents of animal origin.

### 4 First-aid measures

- · Description of 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
- · Most important symptoms and effects, both acute and delayed Eye irritation
- · 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: No special measures required.

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### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Handle as potentially infectious.
 Environmental precautions:

Keep contaminated washing water and dispose of appropriately. Do not allow to enter sewers/ surface or ground water.

- Methods and material for containment and cleaning up: Absorb liquid components with liquid-binding material.
- Pick up mechanically.

Clean the affected area carefully; suitable cleaners are:

- Disinfectant
- · Reference to other sections See Section 13 for disposal information.

### 7 Handling and storage

- · Handling
- · Precautions for safe handling 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:
- Refer to package insert for additional information regarding storage conditions.
- 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.
- · Control parameters

· Components with limit values that require monitoring at the workplace:			
64-17-5 ethanol			
PEL (United States)	Long-term value: 1900 mg/m³, 1000 ppm		
REL (United States)	Long-term value: 1900 mg/m³, 1000 ppm		
TLV (United States)	Short-term value: 1880 mg/m³, 1000 ppm		
57-13-6 urea			
WEEL (United States)	Long-term value: 10 mg/m <sup>3</sup>		
7646-85-7 zinc chloride			
PEL (United States)	Long-term value: 1 mg/m <sup>3</sup> Fume		
REL (United States)	Short-term value: 2 mg/m³ Long-term value: 1 mg/m³		
TLV (United States)	Short-term value: 2 mg/m³ Long-term value: 1 mg/m³ fume		
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· Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures

Follow the usual biosafety practices for handling potentially infectious materials.

The usual precautionary measures for handling chemicals should be followed.

- · Breathing equipment: Not required.
- · Protection of hands: Protective gloves.

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. 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 Information on basic physical and chemical properties · General Information · Appearance: Form: Liauid Color: Amber · Odor: Odorless · pH-value at 20 °C: 7.7 - 7.9 · Change in condition Melting point/Melting range: undetermined Boiling point/Boiling range: undetermined · Flash point: Not applicable · Auto igniting: Product is not selfigniting. · Danger of explosion: Product does not present an explosion hazard. · Density: Not determined · Solubility in / Miscibility with Water: Fully miscible · Solvent content: Organic solvents: 0.2 % 6.2 % Solids content: Other information No further relevant information available. QUS

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### 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: Irritant effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories

· IARC (International Agency for Research on Cancer)		
57-88-5	cholesterol	3
64-17-5	ethanol	1
103-90-2	paracetamol	3
50-06-6	phenobarbital	2B
58-55-9	theophylline	3
· NTP (National Toxicology Program)		
630-93-3	630-93-3 Phenytoin Sodium F	
· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

### **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

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· Other adverse effects No further relevant information available.

### 13 Disposal considerations

- · Waste treatment methods
- · 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.

UN-Number DOT, ADR, ADN, IMDG, IATA	Void
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Void
Transport hazard class(es)	
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)

<ul> <li>Section 302/304 (40CFR355.30 / 40CFR355.40):</li> </ul>	
20830-75-5	5 digoxin
	13 (40CFR372.65):
7646-85-7	zinc chloride
· TSCA (Toxic Substances Control Act):	
	Proprietary Reagent KK
7647-14-5	sodium chloride
	Proprietary Reagent MS 1
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50-99-7	glucose			
657-27-2	lysine hydrochloride			
57-88-5	cholesterol			
144-55-8	sodium hydrogencarbonate			
64-17-5	ethanol			
57-13-6	urea			
7757-82-6	sodium sulphate			
	potassium chloride			
	potassium dihydrogenphosphate			
	Salicylic acid			
	paracetamol			
	lithium chloride			
· California	Proposition 65:			
· Chemica	Is known to cause cancer:			
	phenobarbital			
630-93-3 I	Phenytoin Sodium			
· Developm	nental Toxicity			
64-17-	5 ethanol			
99-66-	1 2-propylvaleric acid			
298-46-4	4 Carbamazepin			
1405-41-0	0 Gentamicin Sulfate			
32986-56-4	4 tobramycin			
· Carcinoge	enic categories			
· EPA (Envi	ironmental Protection Agency)			
57-13-6	urea			
7646-85-7	zinc chloride	D, I, II		
· TLV (Thre	shold Limit Value established by ACGIH)			
64-17-5 et	thanol	A3		
· MAK (Ger	man Maximum Workplace Concentration)	<u>.</u>		
64-17-5 et	thanol	5		
· NIOSH-Ca	a (National Institute for Occupational Safety and Health)			
None of the	e ingredients is listed.			
· National re	regulations			
	instructions (air):			
	Class Share in %			
NK	0.1-1.0			

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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### **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 05/26/2015 / -

#### · 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)

NFPA: National Fire Protection Association (USA)

Carc. 1A: Carcinogenicity, Hazard Category 1A

• \* Data compared to the previous version altered.