

# Material Safety Data Sheet

Printing date 02/04/2003

Reviewed on 02/04/2003

## 1 Identification of substance:

- **Product details:**
- **Trade name:** *Liquichek Urinalysis Control Level 2*
- **Catalog or product number:** 437
- **Application of the substance / the preparation** *Laboratory chemicals*
- **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:**  
*Human Urine*
- **Additional information:**  
*Contains human sourced and/or potentially infectious components.*  
*Contains components derived from human urine.*  
*Contains added constituents of animal origin.*
- **Chemical characterization**

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

CAS: 26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	T, N; R 23/24/25-34-43-50/53	0,01-0,1%
EINECS: 247-500-7			

## 3 Hazards identification

- **Emergency overview:**  
*Xi Irritant*
- **Routes of exposure:**  
*Skin*  
*Ingestion*  
*Inhalation*
- **Information pertaining to particular dangers for man and environment**  
*R 43 May cause sensitization by skin contact.*
- **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.*
- **Special hazards**  
*Contains human sourced and/or potentially infectious components.*  
*Contains components derived from human urine.*

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## 4 First aid measures

- **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
- **Medical conditions aggravated by exposure:** None expected.

## 5 Fire fighting measures

- **Suitable extinguishing agents**  
CO<sub>2</sub>, 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:**  
Do not allow to enter sewers/ surface or ground water.  
Keep contaminated washing water and dispose of appropriately.
- **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.

## 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:** No special requirements.
- **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.

- **Components with limit values that require monitoring at the workplace:**

### 67-64-1 acetone

PEL (United States)	2400 mg/m <sup>3</sup> , 1000 ppm
REL (United States)	590 mg/m <sup>3</sup> , 250 ppm
TLV (United States)	Short-term value: 1782 mg/m <sup>3</sup> , 750 ppm Long-term value: 1188 mg/m <sup>3</sup> , 500 ppm
	BEI

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**25322-68-3 Polyethylene glycol 3000**

TLV (United States) (average molecular weight 200-600)

- **Additional information:** The lists that were valid during the creation were used as basis.
- **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.  
Wash hands before breaks and at the end of work.
- **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

<b>Form:</b>	liquid
<b>Color:</b>	Dark yellow
<b>Odor:</b>	Light

### · Change in condition

**Melting point/Melting range:** undetermined  
**Boiling point/Boiling range:** undetermined

· **Flash point:** Not applicable

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density:** Not determined

### · Solubility in / Miscibility with

**Water:** Fully miscible

· **pH-value at 20°C:** 7,0 - 8,5

· **Organic solvents:** 0,2 %

· **Solids content:** 3,4 %

## 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.

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- **Sensitization:** *Sensitization possible through skin contact.*

## 12 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.*

## 13 Disposal considerations

- **Product:**

- **Recommendation**

*Must be specially treated adhering to official regulations.*

*Can be disposed of with household garbage with prior chemical-physical or biological treatment following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.*

- **Uncleaned packagings:**

- **Recommendation:** *Disposal must be made according to official regulations.*

- **Recommended cleansing agent:** *Water, if necessary with cleansing agents.*

## 14 Transport information

- **Maritime transport IMDG:**

- **Marine pollutant:** *No*

## 15 Regulations

- **SARA (Superfund Amendants 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):**

57-13-6	urea
50-99-7	glucose
7447-40-7	potassium chloride
7647-14-5	sodium chloride
9048-46-8	Albumins, blood serum
60-27-5	2-imino-1-methylimidazolidin-4-one
67-64-1	acetone
56-40-6	glycine
56-89-3	cystine
71-67-0	disodium 6,6'-dihydroxy-3,3'-(4,5,6,7-tetrabromo-1,3-dihydro-3-oxoisobenzofuran-1-ylidene) dibenzenesulphonate
28836-03-5	ammonium 8-anilinonaphthalene-1-sulphonate
1405-10-3	Neomycin, sulfate (salt)
9008-02-0	Hemoglobin

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**· California Proposition 65:**
**· Chemicals known to cause cancer:**

Substance is not listed.

**· Chemicals known to cause reproductive toxicity:**

1405-41-0 Gentamicin Sulfate

32986-56-4 tobramycin

1405-10-3 Neomycin, sulfate (salt)

**· Cancerogenity categories**
**· EPA (Environmental Protection Agency)**

67-64-1 acetone D

**· IARC (International Agency for Research on Cancer)**

Substance is not listed.

**· NTP (National Toxicology Program)**

Substance is not listed.

**· TLV (Threshold Limit Value established by ACGIH)**

67-64-1 acetone A4

**· 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:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

**· Code letter and hazard designation of product:**

Xi Irritant

**· Risk phrases:**

43 May cause sensitization by skin contact.

**· Safety phrases:**

24 Avoid contact with skin.

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

37 Wear suitable gloves.

**· National regulations**

Class	Share in %
III	0.1-1.0

**· Water hazard class:** Water hazard class 1 (Self-assessment): slightly 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.

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**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*

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