



05/26/2015

**Kit Components**

Product code	Description
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<b>375X</b>	<b>Lyphochek® Quantitative Urine Control</b>
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Components:

376	Lyphochek® Quantitative Urine Control (Normal)
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377	Lyphochek® Quantitative Urine Control (Abnormal)
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# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/26/2015

Reviewed on 05/26/2015

## 1 Identification

- **Product identifier**
- **Trade name:** *Lyphochek® Quantitative Urine Control (Normal)*
- **Catalog or product number:** 376
- **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**  
*The product is not classified according to the Globally Harmonized System (GHS).*

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- **Label elements**
- **GHS label elements** *Void*
- **Hazard pictograms** *Void*
- **Signal word** *Void*
- **Hazard statements** *Void*
- **Emergency overview:**
- **Routes of exposure:**  
*Ingestion*  
*Inhalation*  
*Skin*
- **Classification system**
- **NFPA ratings (scale 0-4)**  
*Health = 0*  
*Fire = 0*  
*Reactivity = 0*
- **Special Hazards**  
*Contains human sourced and/or potentially infectious components.*  
*Contains components derived from human urine.*
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

## 3 Composition/information on ingredients

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

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**Trade name: Lyphochek® Quantitative Urine Control (Normal)**

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

CAS: 57-13-6 EINECS: 200-315-5	urea	50-100%
	Proprietary Reagent TR 2	10-20%
	Human Urine	5-10%
CAS: 60-27-5 EINECS: 200-466-7	Creatinine	5-10%
	Proprietary Reagent TT	2.5-5%
	Proprietary Reagent KL	1.0-2.5%
CAS: 50-99-7 EINECS: 200-075-1	glucose	1.0-2.5%
	Proprietary Reagent KW	1.0-2.5%
CAS: 1314-41-6 EINECS: 215-235-6	orange lead	.001-.01%
CAS: 21908-53-2 EINECS: 244-654-7	mercury monoxide	.001-.01%

**· Additional information**

Contains human sourced and/or potentially infectious components.  
Contains components derived from human urine.

**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** No further relevant information available.
- **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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**Trade name: Lyphochek® Quantitative Urine Control (Normal)**

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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:**

**57-13-6 urea**

WEEL (United States) Long-term value: 10 mg/m<sup>3</sup>

**1314-41-6 orange lead**

PEL (United States) Long-term value: 0.05 mg/m<sup>3</sup>  
as Pb; See 29 CFR 1910.1025

REL (United States) Long-term value: 0.05\* mg/m<sup>3</sup>  
as Pb;\*8-hr TWA; See Pocket Guide App. C

TLV (United States) Long-term value: 0.05 mg/m<sup>3</sup>  
as Pb; BEI

**21908-53-2 mercury monoxide**

PEL (United States) Long-term value: 0.1 mg/m<sup>3</sup>  
as Hg; see OSHA standard interpretation memo

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REL (United States)	Short-term value: C 0.1 mg/m <sup>3</sup> Long-term value: 0.05* mg/m <sup>3</sup> as Hg; *Vapor; Skin
TLV (United States)	Long-term value: 0.025 mg/m <sup>3</sup> as Hg; Skin; BEI

**· Ingredients with biological limit values:**

**1314-41-6 orange lead**

BEI (United States)	30 µg/100 ml Medium: blood Time: not critical Parameter: Lead
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**21908-53-2 mercury monoxide**

BEI (United States)	35 µg/L Medium: urine Time: prior to shift Parameter: Total inorganic mercury (background)
	15 µg/L Medium: blood Time: end of shift at end of workweek Parameter: Total inorganic mercury (background)

**· 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:** Solid  
**Color:** Light yellow

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**Trade name: Lyphochek® Quantitative Urine Control (Normal)**

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· <b>Odor:</b>	Light
· <b>pH-value at 20 °C:</b>	5.5-7.0
· <b>Change in condition</b> Melting point/Melting range: undetermined Boiling point/Boiling range: undetermined	
· <b>Flash point:</b>	Not applicable
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Density:</b>	Not determined
· <b>Solubility in / Miscibility with Water:</b>	Soluble
· <b>Solvent content:</b> Organic solvents:	0.0 %
· <b>Solids content:</b>	100.0 %
· <b>Other information</b>	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:**

· **LD/LC50 values for hazardous components per OSHA criteria:**

**57-13-6 urea**

Oral	LD50	14500 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritant effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

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.

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**Trade name: Lyphochek® Quantitative Urine Control (Normal)**

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· **Carcinogenic categories**

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

	Proprietary Reagent QQ	1
1314-41-6	orange lead	2A
21908-53-2	mercury monoxide	3

· **NTP (National Toxicology Program)**

	Proprietary Reagent QQ	K
1314-41-6	orange lead	R

· **OSHA-Ca (Occupational Safety & Health Administration)**

Proprietary Reagent QQ	
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**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.
- **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.

**14 Transport information**

· **UN-Number**

- **DOT, ADR, ADN, IMDG, IATA** Void

· **UN proper shipping name**

- **DOT, ADR, ADN, IMDG, IATA** Void

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**Trade name: Lyphochek® Quantitative Urine Control (Normal)**

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

**15 Regulatory information**

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

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

21908-53-2	mercury monoxide
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· **Section 313 (40CFR372.65):**

21908-53-2	mercury monoxide
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· **TSCA (Toxic Substances Control Act):**

57-13-6	urea
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	Proprietary Reagent TR 2
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60-27-5	Creatinine
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	Proprietary Reagent KL
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50-99-7	glucose
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	Proprietary Reagent KW
--	------------------------

69-93-2	uric acid
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56-89-3	cystine
---------	---------

	Proprietary Reagent SS
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	Proprietary Reagent KS
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51-35-4	L-4-hydroxyproline
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55-10-7	DL-4-hydroxy-3-methoxymandelic acid
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52-39-1	aldosterone
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	Proprietary Reagent RR
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1314-41-6	orange lead
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· **California Proposition 65:**

· **Chemicals known to cause cancer:**

1314-41-6	orange lead
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· **Developmental Toxicity**

21908-53-2	mercury monoxide
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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

	Proprietary Reagent QQ	A
1314-41-6	orange lead	B2
21908-53-2	mercury monoxide	D

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

	Proprietary Reagent QQ	A1
1314-41-6	orange lead	A3
21908-53-2	mercury monoxide	A4

· **MAK (German Maximum Workplace Concentration)**

	Proprietary Reagent QQ	1
1314-41-6	orange lead	2
21908-53-2	mercury monoxide	3B

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

Proprietary Reagent QQ

· **National regulations**

- **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.

**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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

· **\* Data compared to the previous version altered.**

# Safety Data Sheet

acc. to OSHA HCS


Printing date 05/26/2015

Reviewed on 05/26/2015

## 1 Identification

- **Product identifier**
- **Trade name:** Lyphochek® Quantitative Urine Control (Abnormal)
- **Catalog or product number:** 377
- **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**  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2A H319 Causes serious eye irritation.
  - **Label elements**
  - **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms**
- 

GHS07
- **Signal word** Warning
  - **Hazard statements**  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.
  - **Precautionary statements**  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P363 Wash contaminated clothing before reuse.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P302+P352 If on skin: Wash with plenty of water.
  - **Emergency overview:**
  - **Routes of exposure:**  
Ingestion  
Inhalation  
Skin

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**Trade name: Lyphochek® Quantitative Urine Control (Abnormal)**

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- **Classification system**
- **NFPA ratings (scale 0-4)**  
Health = 1  
Fire = 0  
Reactivity = 0
- **Special Hazards**  
Contains human sourced and/or potentially infectious components.  
Contains components derived from human urine.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**3 Composition/information on ingredients**

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

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

CAS: 57-13-6 EINECS: 200-315-5	urea	35-50%
CAS: 7647-14-5 EINECS: 231-598-3	sodium chloride	20-35%
	Proprietary Component A, inorganic salt	10-20%
	Proprietary Reagent TR 2	5-10%
CAS: 50-99-7 EINECS: 200-075-1	glucose	5-10%
CAS: 60-27-5 EINECS: 200-466-7	Creatinine	5-10%
	Human Urine	1.0-2.5%
	Proprietary Reagent TT	1.0-2.5%
	Proprietary Reagent KL	1.0-2.5%
	Proprietary Reagent VV	1.0-2.5%
CAS: 1314-41-6 EINECS: 215-235-6	orange lead	.001-.01%
CAS: 21908-53-2 EINECS: 244-654-7	mercury monoxide	.001-.01%

- **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.

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Trade name: **Lyphochek® Quantitative Urine Control (Abnormal)**

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- **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** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**  
CO<sub>2</sub>, 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.

### 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.

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**Trade name: Lyphochek® Quantitative Urine Control (Abnormal)**

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· **Control parameters**

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

**57-13-6 urea**

WEEL (United States) Long-term value: 10 mg/m<sup>3</sup>

**1314-41-6 orange lead**

PEL (United States) Long-term value: 0.05 mg/m<sup>3</sup>  
as Pb; See 29 CFR 1910.1025

REL (United States) Long-term value: 0.05\* mg/m<sup>3</sup>  
as Pb;\*8-hr TWA; See Pocket Guide App. C

TLV (United States) Long-term value: 0.05 mg/m<sup>3</sup>  
as Pb; BEI

**21908-53-2 mercury monoxide**

PEL (United States) Long-term value: 0.1 mg/m<sup>3</sup>  
as Hg; see OSHA standard interpretation memo

REL (United States) Short-term value: C 0.1 mg/m<sup>3</sup>  
Long-term value: 0.05\* mg/m<sup>3</sup>  
as Hg; \*Vapor; Skin

TLV (United States) Long-term value: 0.025 mg/m<sup>3</sup>  
as Hg; Skin; BEI

· **Ingredients with biological limit values:**

**1314-41-6 orange lead**

BEI (United States) 30 µg/100 ml  
Medium: blood  
Time: not critical  
Parameter: Lead

**21908-53-2 mercury monoxide**

BEI (United States) 35 µg/L  
Medium: urine  
Time: prior to shift  
Parameter: Total inorganic mercury (background)

15 µg/L  
Medium: blood  
Time: end of shift at end of workweek  
Parameter: Total inorganic mercury (background)

· **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.

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**Trade name: Lyphochek® Quantitative Urine Control (Abnormal)**

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**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:**

<b>Form:</b>	Solid
<b>Color:</b>	Light yellow
<b>Odor:</b>	Light

**pH-value at 20 °C:** 5.5-7.0

**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:**

Soluble

**Solvent content:**

**Organic solvents:** 0.0 %

**Solids content:** 100.0 %

**Other information** 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

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Trade name: **Lyphochek® Quantitative Urine Control (Abnormal)**

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**11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values for hazardous components per OSHA criteria:**

**57-13-6 urea**

Oral	LD50	14500 mg/kg (rat)
------	------	-------------------

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritant effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

· **Carcinogenic categories**

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

	Proprietary Reagent J26	2B
	Proprietary Reagent QQ	1
1314-41-6	orange lead	2A
21908-53-2	mercury monoxide	3

· **NTP (National Toxicology Program)**

	Proprietary Reagent QQ	K
1314-41-6	orange lead	R

· **OSHA-Ca (Occupational Safety & Health Administration)**

Proprietary Reagent QQ

**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.
- **Other adverse effects** No further relevant information available.

QUS

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**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.

**14 Transport information**

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

**15 Regulatory information**

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

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

21908-53-2	mercury monoxide
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· **Section 313 (40CFR372.65):**

21908-53-2	mercury monoxide
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· **TSCA (Toxic Substances Control Act):**

57-13-6	urea
7647-14-5	sodium chloride
	Proprietary Reagent TR 2
50-99-7	glucose
60-27-5	Creatinine

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	Proprietary Reagent KL
	Proprietary Reagent VV
	Proprietary Reagent SS
	Proprietary Reagent KW
51-35-4	L-4-hydroxyproline
69-93-2	uric acid
	Proprietary Reagent WW
	Proprietary Reagent KS
50-23-7	hydrocortisone
306-08-1	4-hydroxy-3-methoxyphenylacetic acid

· **California Proposition 65:**

· **Chemicals known to cause cancer:**

	Proprietary Reagent J26
1314-41-6	orange lead

· **Developmental Toxicity**

21908-53-2	mercury monoxide
------------	------------------

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

	Proprietary Reagent QQ	A
1314-41-6	orange lead	B2
21908-53-2	mercury monoxide	D

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

	Proprietary Reagent QQ	A1
1314-41-6	orange lead	A3
21908-53-2	mercury monoxide	A4

· **MAK (German Maximum Workplace Concentration)**

	Proprietary Reagent QQ	1
1314-41-6	orange lead	2
21908-53-2	mercury monoxide	3B

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

Proprietary Reagent QQ
------------------------

· **National regulations**

· **Technical instructions (air):**

Class	Share in %
I	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.

QUS

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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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

· **\* Data compared to the previous version altered.**