

04/05/2010

Kit Components

Product code	Description
536-1000	Microplate Toxoplasma IgG TORCH Obsolete Kit
Components:	
536-1006	Microplate TORCH Wash Concentrate (10X) Obsolete Product
536-1005	Microplate TORCH Stop Solution Obsolete Product
536-1003	Microplate TORCH Sample Diluent Obsolete Product
536-1002	Microplate TOXO IgG Conjugate Obsolete Product
536-1101	Toxo IgG Standards 0 1 2 3 and 4 Obsolete Product
536-1201	Toxo IgG Controls Obsolete Product



Printing date 04/05/2010 Reviewed on 10/21/2009

1 Identification of substance:

- · Product details:
- · Trade name: Microplate TORCH Wash Concentrate (10X)
- · Catalog or product number: 536-1006
- · Application of the substance / the preparation In-vitro laboratory reagent or component
- · Manufacturer/Supplier:

Bio-Rad Laboratories, Diagnostic Group

4000 Alfred Nobel Drive

Hercules, California 94547

1(510)724-7000

- · 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
- · **Description:** Mixture of the substances listed below with non-hazardous additions.

· Listing of dangerous and non-hazardous components:			
7732-18-5	water		50-100%
7647-14-5	sodium chloride	Xi; R 36/38	5-10%
637-39-8	tris(2-hydroxyethyl)ammonium chloride		1.0-2.5%
7681-57-4	disodium disulphite	Xn, Xi; R 22-31-41	0.1-1.0%

· Additional information For the wording of the listed risk phrases refer to section 15.

3 Hazards identification

- · Emergency overview: not applicable
- · Information pertaining to particular dangers for man and environment

The product does not have 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.

· NFPA ratings (scale 0-4)

Health = 0

Fire = 0

Reactivity = 0

4 First aid measures

- · General information No special measures required.
- · After inhalation Supply fresh air; consult doctor in case of complaints.
- · After skin contact Generally the product does not irritate the skin.
- · After eye contact Rinse opened eye for several minutes under running water.

(Contd. on page 2)



Printing date 04/05/2010 Reviewed on 10/21/2009

Trade name: Microplate TORCH Wash Concentrate (10X)

· After swallowing Induce vomiting and call for medical help.

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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: Not required
- · Measures for environmental protection: Dilute with plenty of water.
- Measures for cleaning/collecting:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- · Additional information: No dangerous substances are released.

7 Handling and storage

- · Handling
- · Information for safe handling:

No special measures required.

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

7681-57-4 disodium disulphite

REL (United States) 5 mg/m³ TLV (United States) 5 mg/m³

- · 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.
- · 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.

(Contd. on page 3)



Printing date 04/05/2010 Reviewed on 10/21/2009

Trade name: Microplate TORCH Wash Concentrate (10X)

· Eye protection: Safety glasses

(Contd. of page 2)

9 Physical and chemical properties:

Form:	liquid
Color:	Ċlear
Odor:	Odorless

· Change in condition

· General Information

Melting point/Melting range: undetermined

Boiling point/Boiling range: 100°C

· Flash point: Not applicable

· **Auto igniting:** Product is not selfigniting.

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

· Vapor pressure at 20°C: 23 hPa

· **Density:** Not determined

· Solubility in / Miscibility with

Water: Fully miscible

· Solvent content:

Organic solvents: 0.0 % Water: 87.9 %

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Materials to be avoided:
- · 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:

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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Printing date 04/05/2010 Reviewed on 10/21/2009

Trade name: Microplate TORCH Wash Concentrate (10X)

· Target organs: Not applicable.

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12 Ecological information:

- · Additional 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.

14 Transport information

- · Maritime transport IMDG:
- · Marine pollutant: No
- · Transport/Additional information:

Contact Bio-Rad Laboratories for transportation 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):

None of the ingredients is listed.

Section 313 (40CFR372.65):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

7732-18-5 water

7647-14-5 sodium chloride

637-39-8 tris(2-hydroxyethyl)ammonium chloride

9005-64-5 Tween 20

1310-73-2 sodium hydroxide

7681-57-4 disodium disulphite

- · 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.

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Trade name: Microplate TORCH Wash Concentrate (10X)

(Contd. of page 4)

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Markings according to EU guidelines:

Observe the general safety regulations when handling chemicals
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (GefStoffV).

- · National regulations
- · 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.

DUS



Printing date 04/05/2010 Reviewed on 10/21/2009

1 Identification of substance:

- · Product details:
- · Trade name: Microplate TORCH Stop Solution
- · Catalog or product number: 536-1005
- · Application of the substance / the preparation In-vitro laboratory reagent or component
- · Manufacturer/Supplier:

Bio-Rad Laboratories, Diagnostic Group

4000 Alfred Nobel Drive

Hercules, California 94547

1(510)724-7000

- · 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
- · Description: Mixture of the substances listed below with non-hazardous additions.
- · Listing of dangerous and non-hazardous components:

•	0		
7732-18-5	water		50-100%
7664-93-9	sulphuric acid	C; R 35	5-10%

· Additional information For the wording of the listed risk phrases refer to section 15.

3 Hazards identification

· Emergency overview:

Irritant to eyes.

Irritant to skin.

Irritant to respiratory system and skin.

Xi Irritant

- · Routes of exposure: Skin
- · Information pertaining to particular dangers for man 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.

R 36/38 Irritating to eyes and skin.

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.

4 First aid measures

- · After inhalation In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact Immediately wash with water and soap and rinse thoroughly.
- · After eye contact Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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Printing date 04/05/2010 Reviewed on 10/21/2009

Trade name: Microplate TORCH Stop Solution

· After swallowing Induce vomiting and call for medical help.

(Contd. of page 1)

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: Not required
- · Measures for environmental protection:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7 Handling and storage

- · Handling
- · Information for safe handling:

No special measures required.

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: Keep receptacle tightly sealed.

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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- · 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.

(Contd. on page 3)



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Trade name: Microplate TORCH Stop Solution

(Contd. of page 2)

· Eye protection: Safety glasses

Tightly sealed goggles.

9 Physical and chemical properties	5:
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Form:	liquid
Color:	Clear
Odor:	Odorless

· Change in condition

· General Information

Melting point/Melting range: undetermined

Boiling point/Boiling range: 100°C

· Flash point: Not applicable

· **Auto igniting**: Product is not selfigniting.

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

· Vapor pressure at 20°C: 23 hPa

• **Density at 20°C:** 1.028 g/cm³

· Solubility in / Miscibility with

Water: Fully miscible

• **pH-value at 20°C:** 2.2

· Solvent content:

Organic solvents: 0.0 % Water: 94.0 %

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Materials to be avoided:
- · 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: Irritant to skin and mucous membranes.
- · on the eye: Irritant effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

(Contd. on page 4)



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Trade name: Microplate TORCH Stop Solution

(Contd. of page 3)

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

· Target organs:

Skin.

Eye.

12 Ecological information:

- Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

- · Product:
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Hand over to hazardous waste disposers.

- · 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 Amendents and Reauthorization Act of 1986 USA)
- Section 302/304 (40CFR355.30 / 40CFR355.40):

7664-93-9 sulphuric acid

Section 313 (40CFR372.65):

7664-93-9 sulphuric acid

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

7664-93-9 sulphuric acid

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· NTP (National Toxicology Program)

7664-93-9 sulphuric acid

(Contd. on page 5)

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Printing date 04/05/2010 Reviewed on 10/21/2009

Trade name: Microplate TORCH Stop Solution

(Contd. of page 4)

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is 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:

36/38 Irritating to eyes and skin.

· Safety phrases:

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

30 Never add water to this product.

45 In case of accident or if you feel unwell, seek medical advice immediately.

· National regulations

· Water hazard class: Water hazard class 2 (Self-assessment): 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.

DUS



Printing date 04/05/2010 Reviewed on 10/21/2009

1 Identification of substance:

- · Product details:
- · Trade name: Microplate TORCH Sample Diluent
- · Catalog or product number: 536-1003
- · Application of the substance / the preparation In-vitro laboratory reagent or component
- · Manufacturer/Supplier:

Bio-Rad Laboratories, Diagnostic Group

4000 Alfred Nobel Drive Hercules, California 94547

1(510)724-7000

- · 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: For the wording of the listed risk phrases refer to section 15.
- · Chemical characterization

· Listing of	dangerous and non-hazardous components:		
9048-46-8	Bovine Serum Albumin		1.0-2.5%
7647-14-5	sodium chloride	Xi; R 36/38	1.0-2.5%

3 Hazards identification

- · Emergency overview: not applicable
- · Information pertaining to particular dangers for man and environment not applicable
- · Classification system

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

· NFPA ratings (scale 0-4)

Health = 0

Fire = 0

Reactivity = 0

4 First aid measures

- · General information No special measures required.
- · After inhalation Supply fresh air; consult doctor in case of complaints.
- · 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 Induce vomiting and call for medical help.

DU



Printing date 04/05/2010 Reviewed on 10/21/2009

Trade name: Microplate TORCH Sample Diluent

(Contd. of page 1)

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: Not required
- · Measures for environmental protection: Dilute with plenty of water.
- · Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· Additional information: No dangerous substances are released.

7 Handling and storage

- · Handling
- · Information for safe handling:

No special measures required.

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

26628-22-8 sodium azide

REL (United States) Short-term value: C 0.3** mg/m³, C 0.1* ppm

*as HN3 vapor; **as NaN3; Skin

TLV (United States) Short-term value: C 0.29** mg/m³, C 0.11* ppm

*as HN3 vapor **as NaN3

- · 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.
- · 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.

(Contd. on page 3)



Printing date 04/05/2010 Reviewed on 10/21/2009

Trade name: Microplate TORCH Sample Diluent

· Eye protection: Safety glasses

(Contd. of page 2)

9 Physical and chemical properties:

· General Information

Form: liquid
Color: Colorless
Odor: Odorless

· Change in condition

Melting point/Melting range: 0°C Boiling point/Boiling range: 100°C

· Flash point: Not applicable

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

Vapor pressure at 20°C: 23 hPa
Density at 20°C: 1 g/cm³

· Solubility in / Miscibility with

Water: Fully miscible
Organic solvents: 0.0 %
Water: 95.6 %

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Materials to be avoided:
- · Dangerous reactions

This product contains sodium azide. Sodium azide can react with copper, brass, lead, and solder in piping systems to form explosive compounds of lead azide and copper azide.

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.

· Target organs: Not applicable.

- DU



Printing date 04/05/2010 Reviewed on 10/21/2009

Trade name: Microplate TORCH Sample Diluent

(Contd. of page 3)

12 Ecological information:

- · Additional 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.

Flush pipes with water frequently if discarding solutions containing sodium azide into metal piping systems.

- · 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
- · Transport/Additional information:

Contact Bio-Rad Laboratories for transportation 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):

Substance is listed.

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

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.

(Contd. on page 5)



Printing date 04/05/2010 Reviewed on 10/21/2009

Trade name: Microplate TORCH Sample Diluent

(Contd. of page 4)

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

- · National regulations
- · 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.

DHS



Printing date 04/05/2010 Reviewed on 11/13/2009

1 Identification of substance:

- · Product details:
- Trade name: Microplate TOXO IgG Conjugate
- · Catalog or product number: 536-1002
- · Application of the substance / the preparation In-vitro laboratory reagent or component
- · Manufacturer/Supplier:

Bio-Rad Laboratories, Diagnostic Group

4000 Alfred Nobel Drive Hercules, California 94547

1(510)724-7000

- · 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: For the wording of the listed risk phrases refer to section 15.
- · Chemical characterization

· Listing of d	· Listing of dangerous and non-hazardous components:			
9048-46-8	Bovine Serum Albumin		0.1-1.0%	
25322-68-3	Polyethylene glycol (includes 3000, 4500)		0.1-1.0%	
	boric acid	Repr. Cat. 2; T; R 60-61	0.1-1.0%	
1403-66-3	Gentamicin	T; R 61-20/21/22	0.1-1.0%	

3 Hazards identification

- · Emergency overview: not applicable
- · Information pertaining to particular dangers for man and environment not applicable
- · Classification system

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

4 First aid measures

- · General information No special measures required.
- · After inhalation Supply fresh air; consult doctor in case of complaints.
- · 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 Induce vomiting and call for medical help.

DH



Printing date 04/05/2010 Reviewed on 11/13/2009

Trade name: Microplate TOXO IgG Conjugate

(Contd. of page 1)

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: Not required
- · Measures for environmental protection: No special measures required.
- · Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· Additional information: No dangerous substances are released.

7 Handling and storage

- Handling
- · Information for safe handling:

No special measures required.

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

25322-68-3 Polyethylene glycol (includes 3000, 4500)

WEEL (United States) 10 mg/m³

boric acid

TLV (United States) Short-term value: 6* mg/m³ Long-term value: 2* mg/m3

*as inhalable fraction

- · 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.
- · 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.

(Contd. on page 3)



Printing date 04/05/2010 Reviewed on 11/13/2009

Trade name: Microplate TOXO IgG Conjugate

· Eye protection: Safety glasses

(Contd. of page 2)

9 Physical and chemical properties:

· General Information

Form: liquid
Color: Colorless
Odor: Odorless

· Change in condition

Melting point/Melting range: 0°C Boiling point/Boiling range: 100°C

· Flash point: Not applicable

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

Vapor pressure at 20°C: 23 hPa
Density at 20°C: 1 g/cm³

· Solubility in / Miscibility with

Water: Fully miscible
Organic solvents: 0.0 %
Water: 95.8 %

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Materials to be avoided:
- · 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.

· Target organs: Not applicable.

DHS



Printing date 04/05/2010 Reviewed on 11/13/2009

Trade name: Microplate TOXO IgG Conjugate

(Contd. of page 3)

12 Ecological information:

- · Additional ecological information:
- · General notes: Generally not hazardous for water.

13 Disposal considerations

- · Product:
- · Recommendation Hand over to hazardous waste disposers.
- Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

- · Maritime transport IMDG:
- · Marine pollutant: No
- · 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	s Control Act):
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7732-18-5 water

9048-46-8 Bovine Serum Albumin

25322-68-3 Polyethylene glycol (includes 3000, 4500)

7647-14-5 sodium chloride

boric acid

75277-39-3 sodium 4-(2-hydroxyethyl)piperazin-1-ylethanesulphonate

9007-43-6 Cytochrome c

7791-10-8 strontium chlorate

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

(Contd. on page 5)



Printing date 04/05/2010 Reviewed on 11/13/2009

Trade name: Microplate TOXO IgG Conjugate

(Contd. of page 4)

· 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

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

- · National regulations
- · 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.

DUS



Printing date 04/05/2010 Reviewed on 10/21/2009

1 Identification of substance:

- · Product details:
- · Trade name: Toxo IgG Standards 0 1 2 3 and 4
- · Catalog or product number: 536-1101, 536-1102, 536-1103, 536-1104, 536-1105
- · Application of the substance / the preparation In-vitro laboratory reagent or component
- · Manufacturer/Supplier:

Bio-Rad Laboratories, Diagnostic Group 4000 Alfred Nobel Drive

Hercules, California 94547

1(510)724-7000

- · 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: For the wording of the listed risk phrases refer to section 15.
- · Chemical characterization

· Listing of a	angerous and non-hazardous components:		
94349-60-7	Albumins, bovine serum		1.0-2.5%
7647-14-5	sodium chloride	Xi; R 36/38	1.0-2.5%

3 Hazards identification

- · Emergency overview: not applicable
- · Information pertaining to particular dangers for man and environment not applicable
- · Classification system

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

· NFPA ratings (scale 0-4)

Health = 0

Fire = 0

Reactivity = 0

4 First aid measures

- · General information No special measures required.
- · After inhalation Supply fresh air; consult doctor in case of complaints.
- · 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 Induce vomiting and call for medical help.

DU



Printing date 04/05/2010 Reviewed on 10/21/2009

Trade name: Toxo IgG Standards 0 1 2 3 and 4

(Contd. of page 1)

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: Not required
- · Measures for environmental protection: Dilute with plenty of water.
- · Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· Additional information: No dangerous substances are released.

7 Handling and storage

- · Handling
- · Information for safe handling:

No special measures required.

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

26628-22-8 sodium azide

REL (United States) Short-term value: C 0.3** mg/m³, C 0.1* ppm

*as HN3 vapor; **as NaN3; Skin

TLV (United States) Short-term value: C 0.29** mg/m³, C 0.11* ppm

*as HN3 vapor **as NaN3

- · 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.
- · 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.

(Contd. on page 3)



Printing date 04/05/2010 Reviewed on 10/21/2009

Trade name: Toxo IgG Standards 0 1 2 3 and 4

· Eye protection: Safety glasses

(Contd. of page 2)

9 Physical and chemical properties:

· General Information

Form: liquid
Color: Colorless
Odor: Odorless

· Change in condition

Melting point/Melting range: 0°C Boiling point/Boiling range: 100°C

· Flash point: Not applicable

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

Vapor pressure at 20°C: 23 hPa
Density at 20°C: 1 g/cm³

· Solubility in / Miscibility with

Water: Fully miscible
Organic solvents: 0.0 %
Water: 95.6 %

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Materials to be avoided:
- · Dangerous reactions

This product contains sodium azide. Sodium azide can react with copper, brass, lead, and solder in piping systems to form explosive compounds of lead azide and copper azide.

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.

· Target organs: Not applicable.

- DU



Printing date 04/05/2010 Reviewed on 10/21/2009

Trade name: Toxo IgG Standards 0 1 2 3 and 4

(Contd. of page 3)

12 Ecological information:

- · Additional ecological information:
- · General notes: Generally not hazardous for water.

13 Disposal considerations

- · Product:
- · Recommendation

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. Flush pipes with water frequently if discarding solutions containing sodium azide into metal piping systems.

- · 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
- · Transport/Additional information:

Contact Bio-Rad Laboratories for transportation 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

7647-14-5 sodium chloride

7558-79-4 disodium hydrogenorthophosphate

26628-22-8 sodium azide

9005-64-5 Tween 20

7778-77-0 potassium dihydrogenorthophosphate

- · Carcinogenic categories
- IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

(Contd. on page 5)



Printing date 04/05/2010 Reviewed on 10/21/2009

Trade name: Toxo IgG Standards 0 1 2 3 and 4

(Contd. of page 4)

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).

- · National regulations
- · 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.

DLIC



Printing date 04/05/2010 Reviewed on 11/13/2009

1 Identification of substance:

- · Product details:
- · Trade name: Toxo IgG Controls
- · Catalog or product number: 536-1201, 536-1202, 536-1203
- · Application of the substance / the preparation In-vitro laboratory reagent or component
- · Manufacturer/Supplier:

Bio-Rad Laboratories, Diagnostic Group

4000 Alfred Nobel Drive Hercules, California 94547

1(510)724-7000

- · 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: For the wording of the listed risk phrases refer to section 15.
- · Chemical characterization

· Listing of a	· Listing of dangerous and non-hazardous components:		
94349-60-7	Albumins, bovine serum		1.0-2.5%
7647-14-5	sodium chloride	Xi; R 36/38	1.0-2.5%

3 Hazards identification

- · Emergency overview: not applicable
- · Information pertaining to particular dangers for man and environment not applicable
- · Classification system

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

· NFPA ratings (scale 0-4)

Health = 0

Fire = 0

Reactivity = 0

4 First aid measures

- · General information No special measures required.
- · After inhalation Supply fresh air; consult doctor in case of complaints.
- · 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 Induce vomiting and call for medical help.

DU



Printing date 04/05/2010 Reviewed on 11/13/2009

Trade name: Toxo IgG Controls

(Contd. of page 1)

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: Not required
- · Measures for environmental protection: No special measures required.
- · Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· Additional information: No dangerous substances are released.

7 Handling and storage

- · Handling
- · Information for safe handling:

No special measures required.

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

26628-22-8 sodium azide

REL (United States) Short-term value: C 0.3** mg/m³, C 0.1* ppm

*as HN3 vapor; **as NaN3; Skin

TLV (United States) Short-term value: C 0.29** mg/m³, C 0.11* ppm

*as HN3 vapor **as NaN3

- · 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.
- · 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.

(Contd. on page 3)



Printing date 04/05/2010 Reviewed on 11/13/2009

Trade name: Toxo IgG Controls

· Eye protection: Safety glasses

(Contd. of page 2)

9 Physical and chemical properties:

· General Information

Form: liquid
Color: Colorless
Odor: Odorless

· Change in condition

Melting point/Melting range: 0°C Boiling point/Boiling range: 100°C

· Flash point: Not applicable

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

Vapor pressure at 20°C: 23 hPa
Density at 20°C: 1 g/cm³

· Solubility in / Miscibility with

Water: Fully miscible
Organic solvents: 0.0 %
Water: 95.3 %

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Materials to be avoided:
- · Dangerous reactions

This product contains sodium azide. Sodium azide can react with copper, brass, lead, and solder in piping systems to form explosive compounds of lead azide and copper azide.

· 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.

· Target organs: Not applicable.

- DU



Printing date 04/05/2010 Reviewed on 11/13/2009

Trade name: Toxo IgG Controls

(Contd. of page 3)

12 Ecological information:

- · Additional ecological information:
- · General notes: Generally not hazardous for water.

13 Disposal considerations

- · Product:
- · Recommendation

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. Flush pipes with water frequently if discarding solutions containing sodium azide into metal piping systems.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

- · Maritime transport IMDG:
- · Marine pollutant: No
- · Transport/Additional information:

Contact Bio-Rad Laboratories for transportation 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	Ac	;t)):
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7732-18-5 water

7647-14-5 sodium chloride

7558-79-4 disodium hydrogenorthophosphate

26628-22-8 sodium azide

9005-64-5 Tween 20

7778-77-0 potassium dihydrogenorthophosphate

7447-40-7 potassium chloride

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

(Contd. on page 5)



Printing date 04/05/2010 Reviewed on 11/13/2009

Trade name: Toxo IgG Controls

(Contd. of page 4)

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).

- · National regulations
- · 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.

DUC