

04/05/2010

Kit Components

Product code	Description	
531-2000	MP Thyroid Free T4 Kit Obsolete Kit	
Components:		
531-2002	MP Thyroid Free T4 Incubation Buffer 30 ml Obsolete Product	
531-2003	MP Thyroid Free T4 Conjugate 30 ml Obsolete Product	
531-2004	MP Thyroid Free Substrate 30 ml Obsolete Product	
531-2005	MP Thyroid Free T4 Stop Solution 30 ml Obsolete Product	
531-2006	MP Thyroid Free T4 Wash Concentrate(10x)200ml Obsolete Product	
531-2101	MP Thyroid Free T4 0-5 std 2 ml Obsolete Product	



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

1 Identification of substance:

- · Product details:
- · Trade name: MP Thyroid Free T4 Incubation Buffer 30 ml
- · Catalog or product number: 531-2002
- · 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		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.

· 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: MP Thyroid Free T4 Incubation Buffer 30 ml

· 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.
- 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:

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 10/21/2009

Trade name: MP Thyroid Free T4 Incubation Buffer 30 ml

· Eye protection: Safety glasses

(Contd. of page 2)

9 Physical and chemical properties:

Form: Liquid
Color: Colorless
Odor: Odorless

· Change in condition

· General Information

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: 97.0 %

Solids content: 3.0 %

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: 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.

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

Trade name: MP Thyroid Free T4 Incubation Buffer 30 ml

(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 after consulting 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

- · DOT regulations:
- · Hazard class:
- · Land transport ADR/RID (cross-border)
- · ADR/RID class:
- · Maritime transport IMDG:
- · IMDG Class:
- · Marine pollutant: No
- · Air transport ICAO-TI and IATA-DGR:
- · ICAO/IATA Class: -
- · Transport/Additional information: Not dangerous according to the above specifications.

15 Regulations

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

Substance not listed.

Section 313 (40CFR372.65):

Substance is not listed.

· TSCA (Toxic Substances Control Act):

7732-18-5 water

7647-14-5 sodium chloride

boric acid

7558-79-4 disodium hydrogenorthophosphate

110-98-5 1,1'-oxydipropan-2-ol

(Contd. on page 5)



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

Trade name: MP Thyroid Free T4 Incubation Buffer 30 ml

(Contd. of page 4)

- · 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.

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.

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

1 Identification of substance:

- · Product details:
- · Trade name: MP Thyroid Free T4 Conjugate 30 ml
- · Catalog or product number: 531-2003
- · 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:			
144-02-5	barbital sodium	T; R 25	0.1-1.0%	
94349-60-7	Albumins, bovine serum		0.1-1.0%	
25322-68-3	5322-68-3 Polyethylene glycol (includes 3000, 4500) 0.1-1		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.

· 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: MP Thyroid Free T4 Conjugate 30 ml

· 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).

· 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

(Contd. on page 3)



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

Trade name: MP Thyroid Free T4 Conjugate 30 ml

(Contd. of page 2)

· 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

9 Physical and chemical properties:

	, openies.
· General Information	
Form: Color:	Liquid Colorless
Odor:	Odorless
 Change in condition Melting point/Melting range Boiling point/Boiling range 	
· 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
· pH-value at 20°C: · Organic solvents: · Water:	8.3 0.0 % 95.2 %
· Solids content:	4.8 %

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.

(Contd. on page 4)



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

Trade name: MP Thyroid Free T4 Conjugate 30 ml

· Target organs: Not applicable.

(Contd. of page 3)

12 Ecological information:

- · 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.

13 Disposal considerations

- · Product:
- · Recommendation

Can be disposed of with household garbage after consulting 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

- DOT regulations:
- · Hazard class:
- · Land transport ADR/RID (cross-border)
- · ADR/RID class: -
- · Maritime transport IMDG:
- · IMDG Class:
- · Marine pollutant: No
- · Air transport ICAO-TI and IATA-DGR:
- · ICAO/IATA Class: -
- · Transport/Additional information: Not dangerous according to the above specifications.

15 Regulations

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

Substance not listed.

Section 313 (40CFR372.65):

Substance is not listed.

· TSCA (Toxic Substances Control Act):

7732-18-5 water

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

(Contd. on page 5)



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

Trade name: MP Thyroid Free T4 Conjugate 30 ml

	(Contd. of page 4)
7647-14-5	sodium chloride
	boric acid
110-98-5	1,1'-oxydipropan-2-ol
9007-43-6	Cytochrome c

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

- · National regulations
- · Technical instructions (air):

Class	Share in %
1	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.
- · 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.



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

1 Identification of substance:

- · Product details:
- · Trade name: MP Thyroid Free Substrate 30 ml
- · Catalog or product number: 531-2004
- · 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:

67-68-5 dimethyl sulfoxide

- · Identification number(s):
- · EINECS Number: 2006643
- · Chemical characterization
- · **Description**: Mixture of the substances listed below with non-hazardous additions.

· Listing of d	· Listing of dangerous and non-hazardous components:		
7732-18-5	water		50-100%
67-56-1	methanol	T, F; R 11-23/24/25-39/23/24/25	10-20%
54827-17-7	3,3',5,5'-tetramethylbenzidine	T; R 23/24/25	5-10%

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

3 Hazards identification

· Emergency overview:

Toxic by ingestion.

Toxic by inhalation.

Irritant to skin.

T Toxic

· Routes of exposure:

Ingestion

Inhalation

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 21 Harmful in contact with skin.

R 23/25 Toxic by inhalation and if swallowed.

· Classification system

The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

(Contd. on page 2)



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

Trade name: MP Thyroid Free Substrate 30 ml

(Contd. of page 1)

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 = 3 Fire = 0

Reactivity = 0

4 First aid measures

· General information

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation

Supply fresh air or oxygen; call for doctor.

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. Then consult a doctor.
- · After swallowing Do not induce vomiting; immediately call for medical help.
- · Information for doctor
- · The following symptoms may occur: Breathing difficulty

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:

Mount respiratory protective device.

Wear self-contained respiratory protective device.

6 Accidental release measures

- · Person-related safety precautions: Wear protective equipment (See section 8). Keep unprotected persons away.
- · 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).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

7 Handling and storage

- · Handling
- · Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

No special precautions are necessary if used correctly.

(Contd. on page 3)



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

Trade name: MP Thyroid Free Substrate 30 ml

(Contd. of page 2)

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke. Keep respiratory protective device available.

- 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:

67-56-1 methanol

PEL ((United States)	260 mg/m ³	3, 200 ppm

REL (United States) Short-term value: 325 mg/m³, 250 ppm

Long-term value: 260 mg/m³, 200 ppm

Skin

TLV (United States) | Short-term value: 328 mg/m³, 250 ppm

Long-term value: 262 mg/m³, 200 ppm

Skin; BEI

7722-84-1 hydrogen peroxide solution

PEL (United States) 1.4 mg/m³, 1 ppm

REL (United States) 1.4 mg/m³, 1 ppm

TLV (United States) 1.4 mg/m³, 1 ppm

- · 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.

Store protective clothing separately.

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.

· Eye protection: Safety glasses

9 Physical and chemical properties:

. 1	Gen	eral	Info	rma	tion

Form:LiquidColor:Light yellowOdor:Alcohol-like

(Contd. on page 4)



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

Trade name: MP Thyroid Free Substrate 30 ml

		(Contd. of page 3
· Change in condition Melting point/Melting range. Boiling point/Boiling range:		
· Flash point:	Not applicable	
· Ignition temperature:	455°C	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits: Lower: Upper:	5.5 Vol % 44.0 Vol %	
· Vapor pressure at 20°C:	128 hPa	
· Density:	Not determined	
· Solubility in / Miscibility with Water:	Fully miscible	
· Solvent content: Organic solvents: Water:	15.0 % 75.0 %	
Solids content:	1.0 %	

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

67-56-1 methanol

Oral LD50 5628 mg/kg (rat)
Dermal LD50 20000 mg/kg (rat)

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

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:

Toxic

(Contd. on page 5)



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

Trade name: MP Thyroid Free Substrate 30 ml

(Contd. of page 4)

Harmful

· Target organs:

Skin.

Respiratory tract.

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

14 Transport information

· DOT regulations:

· Hazard class:· Identification number:6.1UN2810

· Packing group:

· Proper shipping name (technical name): TOXIC LIQUID, ORGANIC, N.O.S. (METHANOL)

Label 6.1

· Land transport ADR/RID (cross-border)

· ADR/RID class: 6.1 Toxic substances

Danger code (Kemler): 60
 UN-Number: 2810
 Packing group: ||
 Label 6.1

· Description of goods: 2810 TOXIC LIQUID, ORGANIC, N.O.S. (METHANOL)

· Maritime transport IMDG:

· IMDG Class: 6.1
 · UN Number: 2810
 · Label 6.1
 · Packing group: II
 · EMS Number: F-A,S-A
 · Marine pollutant: No

· Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S. (METHANOL)

· Air transport ICAO-TI and IATA-DGR:

· ICAO/IATA Class: 6.1
 · UN/ID Number: 2810
 · Label 6.1
 · Packing group: || ||

(Contd. on page 6)



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

Trade name: MP Thyroid Free Substrate 30 ml

(Contd. of page 5)

· Proper shipping name:

TOXIC LIQUID, ORGANIC, N.O.S. (METHANOL)

· Remarks:

This package contains dangerous goods in excepted small quantities and is in all respects in compliance with the applicable international and national government regulations and the IATA Dangerous Goods Regulation.

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):

67-56-1 methanol

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

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

7722-84-1 hydrogen peroxide solution

3

NTP (National Toxicology Program)

None of the ingredients is listed.

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

Code letter and hazard designation of product:

T Toxic

· Hazard-determining components of labelling:

3,3',5,5'-tetramethylbenzidine methanol

· Risk phrases:

Harmful in contact with skin.

23/25 Toxic by inhalation and if swallowed.

· Safety phrases:

Keep away from living quarters. 4

7/9 Keep container tightly closed and in a well-ventilated place.

Keep away from sources of ignition - No smoking. 16

20 When using do not eat or drink.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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

(Contd. on page 7)



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

Trade name: MP Thyroid Free Substrate 30 ml

(Contd. of page 6)

- · National regulations
- · Technical instructions (air):

Class	Share in %
1	20-35

· 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: MP Thyroid Free T4 Stop Solution 30 ml
- · Catalog or product number: 531-2005
- · 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:

7664-93-9 sulphuric acid

C; R 35 1.0-2.5%

3 Hazards identification

· Emergency overview:

Corrosive.

May cause irreversible eye damage.

C Corrosive

· Information pertaining to particular dangers for man and environment

R 34 Causes burns.

· 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 = 3

Fire = 0

Reactivity = 0

4 First aid measures

- · General information Immediately remove any clothing soiled by the product.
- · 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. Then consult a doctor.

(Contd. on page 2)



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

Trade name: MP Thyroid Free T4 Stop Solution 30 ml

(Contd. of page 1)

· After swallowing Drink copious amounts of water and provide fresh air. Immediately call a doctor.

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: Wear protective equipment (See section 8). Keep unprotected persons away.
- · 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).

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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: Not required.
- · 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

(Contd. on page 3)



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

Trade name: MP Thyroid Free T4 Stop Solution 30 ml

(Contd. of page 2)

· Penetration time of glove material

9 Physical and chemical properties:

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

Tightly sealed goggles.

· General Information	
Form:	Liquid
Color:	Colorless
Odor:	Odorless
· Change in condition Melting point/Melting rang Boiling point/Boiling range	
· Flash point:	Not applicable
· Danger of explosion:	Product does not present an explosion hazard.
· Vapor pressure at 20°C:	23 hPa

· Solubility in / Miscibility with

· Density at 20°C:

Water: Fully miscible

1 g/cm³

• pH-value at 20°C: 1
 • Organic solvents: 0.0 %
 • Water: 98.3 %

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: Caustic effect on skin and mucous membranes.
- · on the eye: Strong caustic effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

(Contd. on page 4)



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

Trade name: MP Thyroid Free T4 Stop Solution 30 ml

· Target organs: Skin.

(Contd. of page 3)

12 Ecological information:

- · 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.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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

- · DOT regulations:
- · Hazard class:
- · Land transport ADR/RID (cross-border)
- · ADR/RID class:
- · Maritime transport IMDG:
- · IMDG Class:
- · Marine pollutant: No
- · Air transport ICAO-TI and IATA-DGR:
- · ICAO/IATA Class: -

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

(Contd. on page 5)



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

Trade name: MP Thyroid Free T4 Stop Solution 30 ml

Contd. of page 4)

TSCA (Toxic Substances Control Act):

Substance is listed.

Carcinogenic categories

IARC (International Agency for Research on Cancer)

7664-93-9 sulphuric acid 1

NTP (National Toxicology Program)

7664-93-9 sulphuric acid K

OSHA-Ca (Occupational Safety & Health Administration)

· 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:

C Corrosive

· Risk phrases:

34 Causes burns.

Substance is not listed.

- · Safety phrases:
- When using do not eat or drink.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 30 Never add water to this product.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 45 In case of accident or if you feel unwell, seek medical advice immediately.
- · National regulations
- · 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.
- · 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.



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

1 Identification of substance:

- · Product details:
- · Trade name: MP Thyroid Free T4 Wash Concentrate(10x)200ml
- · Catalog or product number: 531-2006
- · 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%		
102-71-6	2,2',2"-nitrilotriethanol		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: MP Thyroid Free T4 Wash Concentrate(10x)200ml

· 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.
- 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: MP Thyroid Free T4 Wash Concentrate(10x)200ml

· Eye protection: Safety glasses

(Contd. of page 2)

Liquid	
Clear	
Odorless	
e: undetermined	
9: 100°C	
Not applicable	
Product is not selfigniting.	
Product does not present an explosion hazard.	
23 hPa	
Not determined	
h	
Fully miscible	
2.1 %	
88.3 %	
	e: undetermined e: 100°C Not applicable Product is not selfigniting. Product does not present an explosion hazard. 23 hPa Not determined Fully miscible 2.1 %

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.

(Contd. on page 4)



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

Trade name: MP Thyroid Free T4 Wash Concentrate(10x)200ml

· Target organs: Not applicable.

(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 after consulting 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

- DOT regulations:
- · Hazard class:
- · Land transport ADR/RID (cross-border)
- · ADR/RID class:
- · Maritime transport IMDG:
- · IMDG Class:
- · Marine pollutant: No
- · Air transport ICAO-TI and IATA-DGR:
- · ICAO/IATA Class: -
- · Transport/Additional information: Not dangerous according to the above specifications.

15 Regulations

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

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

102-71-6 2,2',2"-nitrilotriethanol

9005-64-5 Tween 20

(Contd. on page 5)



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

Trade name: MP Thyroid Free T4 Wash Concentrate(10x)200ml

110-98-5 1,1'-oxydipropan-2-ol
7681-57-4 disodium disulphite
1310-73-2 sodium hydroxide (Contd. of page 4)

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

102-71-6 2,2',2"-nitrilotriethanol

3

· NTP (National Toxicology Program)

None of the ingredients is listed.

· 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
- · Technical instructions (air):

Class	Share in %	
NK	1.0-2.5	

· 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: MP Thyroid Free T4 0-5 std 2 ml
- · Catalog or product number: 531-2101, 531-2102, 531-2103, 531-2104, 531-2105, 531-2106
- · 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:

Human Source Material

- · Identification number(s):
- · EINECS Number: 268-338-3
- · Additional information: For the wording of the listed risk phrases refer to section 15.
- · Chemical characterization
- Listing of dangerous and non-hazardous components:

26628-22-8 sodium azide

T+, N; R 28-32-50/53 0.01-0.1%

3 Hazards identification

· Emergency overview:

Xn Harmful

- · Routes of exposure: Ingestion
- Information pertaining to particular dangers for man and environment

R 22 Harmful if swallowed.

R 32 Contact with acids liberates very toxic gas.

· 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 = 2

Fire = 0

Reactivity = 0

4 First aid measures

· General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation Supply fresh air; consult doctor in case of complaints.
- · After skin contact Generally the product does not irritate the skin.

(Contd. on page 2)



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

Trade name: MP Thyroid Free T4 0-5 std 2 ml

(Contd. of page 1)

- · After eye contact Rinse opened eye for several minutes under running water.
- · After swallowing Immediately call a doctor.
- · Information for doctor
- · The following symptoms may occur: Breathing difficulty

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: Mount respiratory protective device.

6 Accidental release measures

- · Person-related safety precautions: Mount respiratory protective device.
- · 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).

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: According to product specification
- · Information about storage in one common storage facility: Do not store together with acids.
- · 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 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

Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.

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

(Contd. on page 3)



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

Trade name: MP Thyroid Free T4 0-5 std 2 ml

(Contd. of page 2)

· 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

9 Physical and chemical properties:

	2000
· General Information	
Form:	Liquid
Color:	Opaque
Odor:	Odorless
· Change in condition	
Melting point/Melting range:	
Boiling point/Boiling range:	> 100°C
· Flash point:	Not applicable
· Danger of explosion:	Product does not present an explosion hazard.
· Density:	Not determined
· Solubility in / Miscibility with	
Water:	Fully miscible
Organic solvents:	0.1 %
Solids content:	0.1%

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.

DUS.



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

Trade name: MP Thyroid Free T4 0-5 std 2 ml

(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 after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

Hand over to hazardous waste disposers.

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

- · DOT regulations:
- · Hazard class:
- · Land transport ADR/RID (cross-border)
- · ADR/RID class:
- · Maritime transport IMDG:
- · IMDG Class:
- · Marine pollutant: No
- · Air transport ICAO-TI and IATA-DGR:
- · ICAO/IATA Class: -

15 Regulations

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

26628-22-8 sodium azide

· Section 313 (40CFR372.65):

26628-22-8 sodium azide

· TSCA (Toxic Substances Control Act):

26628-22-8 sodium azide

110-98-5 1,1'-oxydipropan-2-ol

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

Substance is not listed.

(Contd. on page 5)



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

Trade name: MP Thyroid Free T4 0-5 std 2 ml

(Contd. of page 4)

· NTP (National Toxicology Program)

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:

Xn Harmful

· Risk phrases:

22 Harmful if swallowed.

32 Contact with acids liberates very toxic gas.

· Safety phrases:

36 Wear suitable protective clothing.

- · 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