31.05.2023	Kit Components	
Product code	Description	
ITC82020	IMTEC-PR3-ANCA	
Components:		
ITC82020 [CAL]	Calibrators IgG 1 - 5	
ITC82020 [NC]	Negative Control Serum	
ITC82020 [PC]	Positive Control Serum	
ITC82020 [WASH][20x]	Washing Buffer (Concentrate 20x)	
ITC82020 [DIL]	Dilution Buffer	
ITC82020 [CON]	Conjugate Solution	
ITC82020 [SUB]	TMB Solution	
ITC82020 [STOP]	Stop Solution	
ITC82020 [MTP]	Mikrotiter Plate	

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

## Version number 6 (replaces version 5)

Revision: 31.05.2023

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## · 1.1 Product identifier

- · Trade name: Calibrators IgG 1 5
- · Article number: ITC82020 [CAL]
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- · Application of the substance / the mixture In Vitro Diagnostic
- · 1.3 Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

HUMAN Gesellschaft für Biochemica und Diagnostica mbH Max-Planck-Ring 21 65205 Wiesbaden Germany phone +49 (0) 6122 99 88 0 fax: +49 (0) 6122 99 88 100 eMail: human@human.de

- Further information obtainable from: Head office, phone: +49 (0) 6122 99 88 0
- · 1.4 Emergency telephone number:

INFRASERV, Telephone +49(0) 69-305-6418, availibility 24h per day (in german and english)

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008** The product is not classified, according to the CLP regulation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void

#### · Hazard statements Void

#### · Precautionary statements

- P234 Keep only in original packaging.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P281 Use personal protective equipment as required.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- P337+P313 If eye irritation persists: Get medical advice/attention.
- P401 Store in accordance with local/regional/national/international regulations.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 2.3 Other hazards

## Results of PBT and vPvB assessment

PBT:

This substance/mixture does not contain components classified as either persistent, bioaccumulative and toxic (PBT) at concentrations of 0.1% or higher.

vPvB:

This substance/mixture does not contain components classified as either very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

(Contd. on page 2)



Printing date 31.05.2023

#### Version number 6 (replaces version 5)

Revision: 31.05.2023

Trade name: Calibrators IgG 1 - 5

(Contd. of page 1)

## **SECTION 3: Composition/information on ingredients**

· 3.2 Mixtures

· **Description:** Serum, human origin, liquid

· Dangerous components: Void

• Additional information: For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:

In case of contact, immediately flush with plenty of water. Consult doctor in case of complaints.

- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: Fire-fighters should wear appropriate protective equipment.

## **SECTION 6: Accidental release measures**

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- . 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

- · 7.1 Precautions for safe handling No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.

(Contd. on page 3)



Printing date 31.05.2023

#### Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Calibrators IgG 1 - 5

(Contd. of page 2)

#### • Further information about storage conditions:

No further requirements.

Keep container tightly sealed.

• 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2, no other specific uses are foreseen

## **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

#### · Ingredients 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 valid during the making were used as basis.

- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

- Respiratory protection: Not required.
- Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### 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/face protection Goggles recommended during refilling

# SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- · General Information
- · Colour:
- · Odour:
- Odour threshold:
- Melting point/freezing point:
- Boiling point or initial boiling point and boiling range
- · Flammability
- · Lower and upper explosion limit
- · Lower:
- · Upper:
- · Flash point:
- · Auto-ignition temperature:

Red Odourless No information available. 0 °C

100 °C (CAS: 7732-18-5 water, distilled, conductivity or of similar purity) No information available.

No information available. No information available. Not applicable. No information available.

<sup>(</sup>Contd. on page 4)



Printing date 31.05.2023

## Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Calibrators IgG 1 - 5

	(Contd. of page	
Decomposition temperature:	No information available.	
pH at 20 °C	7.1	
Viscosity:		
Kinematic viscosity	No information available	
Dynamic at 20 °C:	0.952 mPas	
Solubility		
water:	Fully miscible.	
Partition coefficient n-octanol/water (log value)	No information available.	
Vapour pressure at 20 °C:	23 hPa	
Density and/or relative density		
Density at 20 °C:	1 g/cm³	
Relative density	No information available.	
· Vapour density	No information available.	
9.2 Other information		
Appearance:		
Form:	Liquid	
Important information on protection of health an		
environment, and on safety.		
Ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Solvent content:	· ·	
Water:	96.0 %	
Solids content:	1.8 %	
Molecular weight	18.02 g/mol	
Change in condition	10.02 g/1101	
Evaporation rate	No information available.	
Information with regard to physical hazar	rd	
classes		
Explosives	Void	
Flammable gases	Void	
	Void Void	
Aerosols		
Aerosols Oxidising gases	Void	
Aerosols Oxidising gases Gases under pressure	Void Void	
Aerosols Oxidising gases Gases under pressure Flammable liquids	Void Void Void	
Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures	Void Void Void Void	
Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures	Void Void Void Void Void Void	
Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids	Void Void Void Void Void	
Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids	Void Void Void Void Void Void Void	
Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures	Void Void Void Void Void Void Void Void	
Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable	Void Void Void Void Void Void Void Void	
Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water	Void Void Void Void Void Void Void Void	
Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids	Void Void Void Void Void Void Void Void	
Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids Oxidising solids	Void Void Void Void Void Void Void Void	
Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable	Void Void Void Void Void Void Void Void	

# **SECTION 10: Stability and reactivity**

• **10.1 Reactivity** No further relevant information available.

(Contd. on page 5)



Printing date 31.05.2023

#### Version number 6 (replaces version 5)

Revision: 31.05.2023

Trade name: Calibrators IgG 1 - 5

(Contd. of page 4)

- <sup>·</sup> 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · Additional toxicological information:

All sera or plasmas used to prepare the calibrator have been tested for the presence of HBsAg as well as HIV and HCV antibodies and found to be negative by validated methods. Since no test method can ultimately rule out the presence of infectious agents, the material should be considered potentially infectious.

11.2 Information on other hazards

#### Endocrine disrupting properties

None of the ingredients is listed.

# **SECTION 12: Ecological information**

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Additional ecological information: No further relevant indications
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow product to reach ground water, water course or sewage system.

(Contd. on page 6)



Printing date 31.05.2023

#### Version number 6 (replaces version 5)

Revision: 31.05.2023

Trade name: Calibrators IgG 1 - 5

(Contd. of page 5)

## **SECTION 13: Disposal considerations**

#### · 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

## · European waste catalogue

18 01 03\* wastes whose collection and disposal is subject to special requirements in order to prevent infection

#### · Uncleaned packaging:

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

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information		
<ul> <li>14.1 UN number or ID number</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	not regulated	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	not regulated	
<ul> <li>14.3 Transport hazard class(es)</li> </ul>		
· ADR, ADN, IMDG, IATA · Class	not regulated	
· 14.4 Packing group · ADR, IMDG, IATA	not regulated	
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	Νο	
· 14.6 Special precautions for user	Not applicable.	
<ul> <li>14.7 Maritime transport in bulk according to instruments</li> </ul>	IMO Not applicable.	
· Transport/Additional information:		
· ADR · Limited quantities (LQ)	not regulated	
· UN "Model Regulation":	not regulated	

# **SECTION 15: Regulatory information**

 $^{\cdot}$  15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Labelling according to Regulation (EC) No 1272/2008 Void

· Hazard pictograms Void

· Signal word Void

· Hazard statements Void

- Precautionary statements
- P234 Keep only in original packaging.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P262 Do not get in eyes, on skin, or on clothing.

(Contd. on page 7)



Printing date 31.05.2023

Version number 6 (replaces version 5)

Revision: 31.05.2023

Trade name: Calibrators IgG 1 - 5

	(Contd. of page 6)
P281	Use personal protective equipment as required.
P303+P361+P3	353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P401	Store in accordance with local/regional/national/international regulations.
P501	Dispose of contents/container in accordance with local/regional/national/international
F 50 T	regulations.
· Directive 2012	/18/EU
· Named dange	rous substances - ANNEX I None of the ingredients is listed.
-	11/65/EU on the restriction of the use of certain hazardous substances in electrical and
electronic equ	ipment – Annex II
	redients is listed.
REGULATION	(EU) 2019/1148
· Annex I - RES under Article &	TRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing 5(3))
None of the ing	redients is listed.
· Annex II - REP	ORTABLE EXPLOSIVES PRECURSORS
None of the ing	redients is listed.
· Regulation (E	C) No 273/2004 on drug precursors
None of the ing	redients is listed.
	C) No 111/2005 laying down rules for the monitoring of trade between the Community ntries in drug precursors
None of the ing	redients is listed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **SECTION 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.

#### · Version number of previous version: 5

#### Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative



Printing date 31.05.2023 Ve

Version number 6 (replaces version 5)

Revision: 31.05.2023

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## · 1.1 Product identifier

- · Trade name: Negative Control Serum
- · Article number: ITC82020 [NC]
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- Application of the substance / the mixture In Vitro Diagnostic
- 1.3 Details of the supplier of the safety data sheet

# • Manufacturer/Supplier:

HUMAN Gesellschaft für Biochemica und Diagnostica mbH Max-Planck-Ring 21 65205 Wiesbaden Germany phone +49 (0) 6122 99 88 0 fax: +49 (0) 6122 99 88 100 eMail: human@human.de

- Further information obtainable from: Head office, phone: +49 (0) 6122 99 88 0
- · 1.4 Emergency telephone number:

INFRASERV, Telephone +49(0) 69-305-6418, availibility 24h per day (in german and english)

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008** The product is not classified, according to the CLP regulation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void

#### · Hazard statements Void

- · Precautionary statements
- P234 Keep only in original packaging.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P281 Use personal protective equipment as required.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- P337+P313 If eye irritation persists: Get medical advice/attention.
- P401 Store in accordance with local/regional/national/international regulations.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

## Results of PBT and vPvB assessment

PBT:

This substance/mixture does not contain components classified as either persistent, bioaccumulative and toxic (PBT) at concentrations of 0.1% or higher.

vPvB:

This substance/mixture does not contain components classified as either very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

(Contd. on page 2)



Printing date 31.05.2023

#### Version number 6 (replaces version 5)

Revision: 31.05.2023

#### Trade name: Negative Control Serum

(Contd. of page 1)

## **SECTION 3: Composition/information on ingredients**

· 3.2 Mixtures

· **Description:** Serum, human origin, liquid

· Dangerous components: Void

• Additional information: For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:

In case of contact, immediately flush with plenty of water. Consult doctor in case of complaints.

- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: Fire-fighters should wear appropriate protective equipment.

## **SECTION 6: Accidental release measures**

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- . 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

- · 7.1 Precautions for safe handling No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.

(Contd. on page 3)



Printing date 31.05.2023

#### Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Negative Control Serum

(Contd. of page 2)

#### • Further information about storage conditions:

No further requirements.

Keep container tightly sealed.

•7.3 Specific end use(s) Apart from the uses mentioned in section 1.2, no other specific uses are foreseen

## **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

#### · Ingredients 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 valid during the making were used as basis.

- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

- Respiratory protection: Not required.
- Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### 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/face protection Goggles recommended during refilling

# SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- · General Information
- · Colour:
- Odour:
- Odour threshold:
- Melting point/freezing point:
- Boiling point or initial boiling point and boiling range
- · Flammability
- · Lower and upper explosion limit
- · Lower:
- · Upper:
- · Flash point:
- · Auto-ignition temperature:

Red Odourless No information available. 0 °C

100 °C (CAS: 7732-18-5 water, distilled, conductivity or of similar purity) No information available.

No information available. No information available. Not applicable. No information available.

(Contd. on page 4)



Printing date 31.05.2023

## Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Negative Control Serum

	(Contd. of page	
Decomposition temperature:	No information available.	
pH at 20 °C	7.1	
Viscosity:		
Kinematic viscosity	No information available	
Dynamic at 20 °C:	0.952 mPas	
Solubility		
water:	Fully miscible.	
Partition coefficient n-octanol/water (log value)	No information available.	
Vapour pressure at 20 °C:	23 hPa	
Density and/or relative density		
Density at 20 °C:	1 g/cm <sup>3</sup>	
Relative density	No information available.	
Vapour density	No information available.	
9.2 Other information		
Appearance:	1 Second at	
Form:	Liquid	
Important information on protection of health an	d	
environment, and on safety.		
Ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Solvent content:		
Water:	95.5 %	
Solids content:	1.7 %	
Molecular weight	18.02 g/mol	
Change in condition		
Evaporation rate	No information available.	
Information with regard to physical hazar	d	
classes		
Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flammable	)	
gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Organic peroxides		
Corrosive to metals	Void	

# **SECTION 10: Stability and reactivity**

• **10.1 Reactivity** No further relevant information available.

(Contd. on page 5)



Printing date 31.05.2023

#### Version number 6 (replaces version 5)

Revision: 31.05.2023

#### Trade name: Negative Control Serum

(Contd. of page 4)

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · Additional toxicological information:

All donor units of human origin have been tested for HBsAg, HIV and HCV-antibodies and found to be negative using approved methods. However, the material should still be regarded as potentially infectious.

- 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- · Additional ecological information: No further relevant indications
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow product to reach ground water, water course or sewage system.

## **SECTION 13: Disposal considerations**

- 13.1 Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 6)



Printing date 31.05.2023

#### Version number 6 (replaces version 5)

Revision: 31.05.2023

#### Trade name: Negative Control Serum

(Contd. of page 5)

## European waste catalogue

18 01 03\* wastes whose collection and disposal is subject to special requirements in order to prevent infection

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information	
<ul> <li>14.1 UN number or ID number</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	not regulated
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	not regulated
<ul> <li>14.3 Transport hazard class(es)</li> </ul>	
· ADR, ADN, IMDG, IATA · Class	not regulated
<ul> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	not regulated
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No
· 14.6 Special precautions for user	Not applicable.
<ul> <li>14.7 Maritime transport in bulk according to instruments</li> </ul>	o IMO Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ)	not regulated
· UN "Model Regulation":	not regulated

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture · Labelling according to Regulation (EC) No 1272/2008 Void · Hazard pictograms Void · Signal word Void · Hazard statements Void Precautionary statements P234 Keep only in original packaging. Do not breathe dust/fume/gas/mist/vapours/spray. P260 Do not get in eyes, on skin, or on clothing. P262 Use personal protective equipment as required. P281 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. (Contd. on page 7)



Printing date 31.05.2023

Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Negative Control Serum

P401	(Contd. of page 6) Store in accordance with local/regional/national/international regulations.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Directive 20	12/18/FU
	gerous substances - ANNEX I None of the ingredients is listed.
	2011/65/EU on the restriction of the use of certain hazardous substances in electrical and quipment – Annex II
	ingredients is listed.
REGULATIO	DN (EU) 2019/1148
· Annex I - R under Articl	ESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing
None of the	ingredients is listed.
· Annex II - R	EPORTABLE EXPLOSIVES PRECURSORS
None of the	ingredients is listed.
· Regulation	(EC) No 273/2004 on drug precursors
None of the	ingredients is listed.
	(EC) No 111/2005 laying down rules for the monitoring of trade between the Community ountries in drug precursors
None of the	ingredients is listed.
· 15.2 Chemic	cal safety assessment: A Chemical Safety Assessment has not been carried out.
<b>SECTION</b>	
SECTION	16: Other information
This informa	tion is based on our present knowledge. However, this shall not constitute a guarantee for any

# 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.

#### · Version number of previous version: 5

Abbreviations and acronyms:
 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative



Printing date 31.05.2023

## Version number 6 (replaces version 5)

Revision: 31.05.2023

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## · 1.1 Product identifier

## Trade name: Positive Control Serum

- · Article number: ITC82020 [PC]
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture In Vitro Diagnostic
- 1.3 Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

HUMAN Gesellschaft für Biochemica und Diagnostica mbH Max-Planck-Ring 21 65205 Wiesbaden Germany phone +49 (0) 6122 99 88 0 fax: +49 (0) 6122 99 88 100 eMail: human@human.de

- Further information obtainable from: Head office, phone: +49 (0) 6122 99 88 0
- · 1.4 Emergency telephone number:

INFRASERV, Telephone +49(0) 69-305-6418, availibility 24h per day (in german and english)

# SECTION 2: Hazards identification

# 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 The product is not classified, according to the CLP regulation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void

#### · Hazard statements Void

- Precautionary statements
- P234 Keep only in original packaging.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P281 Use personal protective equipment as required.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- P337+P313 If eye irritation persists: Get medical advice/attention.
- P401 Store in accordance with local/regional/national/international regulations.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· 2.3 Other hazards

## Results of PBT and vPvB assessment

PBT:

This substance/mixture does not contain components classified as either persistent, bioaccumulative and toxic (PBT) at concentrations of 0.1% or higher.

vPvB:

This substance/mixture does not contain components classified as either very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

(Contd. on page 2)



Printing date 31.05.2023

#### Version number 6 (replaces version 5)

Revision: 31.05.2023

#### Trade name: Positive Control Serum

(Contd. of page 1)

## **SECTION 3: Composition/information on ingredients**

· 3.2 Mixtures

· **Description:** Serum, human origin, liquid

· Dangerous components: Void

• Additional information: For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:

In case of contact, immediately flush with plenty of water. Consult doctor in case of complaints.

- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: Fire-fighters should wear appropriate protective equipment.

## **SECTION 6: Accidental release measures**

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- . 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

- · 7.1 Precautions for safe handling No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.

(Contd. on page 3)



Printing date 31.05.2023 Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Positive Control Serum

(Contd. of page 2)

#### • Further information about storage conditions:

No further requirements.

Keep container tightly sealed.

•7.3 Specific end use(s) Apart from the uses mentioned in section 1.2, no other specific uses are foreseen

## **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

#### · Ingredients 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 valid during the making were used as basis.

- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

- Respiratory protection: Not required.
- Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### 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/face protection Goggles recommended during refilling

# SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- · General Information
- · Colour:
- Odour:
- Odour threshold:
- Melting point/freezing point:
- Boiling point or initial boiling point and boiling range
- · Flammability
- · Lower and upper explosion limit
- · Lower:
- · Upper:
- · Flash point:
- · Auto-ignition temperature:

Red Odourless No information available. 0 °C

100 °C (CAS: 7732-18-5 water, distilled, conductivity or of similar purity) No information available.

No information available. No information available. Not applicable. No information available.

<sup>(</sup>Contd. on page 4)



Printing date 31.05.2023

## Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Positive Control Serum

	(Contd. of page	
Decomposition temperature:	No information available.	
pH at 20 °C	7.1	
Viscosity:		
Kinematic viscosity	No information available	
Dynamic at 20 °C:	0.952 mPas	
Solubility		
water:	Fully miscible.	
Partition coefficient n-octanol/water (log value	) No information available.	
Vapour pressure at 20 °C:	23 hPa	
Density and/or relative density		
Density at 20 °C:	1 g/cm <sup>3</sup>	
Relative density	No information available.	
Vapour density	No information available.	
9.2 Other information		
Appearance:		
Form:	Liquid	
Important information on protection of health a		
environment, and on safety.		
Ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Solvent content:	Product does not present an explosion hazard.	
Water:	95.5 %	
Solids content:		
	1.7 %	
Molecular weight	18.02 g/mol	
Change in condition Evaporation rate	No information available.	
•		
Information with regard to physical haz	ard	
classes		
Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flammab		
gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
	Void	
Corrosive to metals Desensitised explosives	Void	

# **SECTION 10: Stability and reactivity**

• **10.1 Reactivity** No further relevant information available.

(Contd. on page 5)



Printing date 31.05.2023

### Version number 6 (replaces version 5)

Revision: 31.05.2023

#### Trade name: Positive Control Serum

(Contd. of page 4)

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · Additional toxicological information:

All donor units of human origin have been tested for HBsAg, HIV and HCV-antibodies and found to be negative using approved methods. However, the material should still be regarded as potentially infectious.

- 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

# **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- · Additional ecological information: No further relevant indications
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow product to reach ground water, water course or sewage system.

## **SECTION 13: Disposal considerations**

- 13.1 Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 6)



Printing date 31.05.2023

#### Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Positive Control Serum

(Contd. of page 5)

## European waste catalogue

18 01 03\* wastes whose collection and disposal is subject to special requirements in order to prevent infection

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

• Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information	
<ul> <li>14.1 UN number or ID number</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	not regulated
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	not regulated
<ul> <li>14.3 Transport hazard class(es)</li> </ul>	
· ADR, ADN, IMDG, IATA · Class	not regulated
<ul> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	not regulated
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No
· 14.6 Special precautions for user	Not applicable.
<ul> <li>14.7 Maritime transport in bulk according to instruments</li> </ul>	o IMO Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ)	not regulated
· UN "Model Regulation":	not regulated

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture · Labelling according to Regulation (EC) No 1272/2008 Void · Hazard pictograms Void · Signal word Void · Hazard statements Void · Precautionary statements P234 Keep only in original packaging. Do not breathe dust/fume/gas/mist/vapours/spray. P260 P262 Do not get in eyes, on skin, or on clothing. Use personal protective equipment as required. P281 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. (Contd. on page 7)



Printing date 31.05.2023

Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Positive Control Serum

(Contd. of page 6) P401 Store in accordance with local/regional/national/international regulations. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Directive 2012/18/EU · Named dangerous substances - ANNEX I None of the ingredients is listed. DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II None of the ingredients is listed. **REGULATION (EU) 2019/1148** Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)) None of the ingredients is listed. Annex II - REPORTABLE EXPLOSIVES PRECURSORS None of the ingredients is listed. Regulation (EC) No 273/2004 on drug precursors None of the ingredients is listed. Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors None of the ingredients is listed. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out. SECTION 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.

#### · Version number of previous version: 5

Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative



Printing date 31.05.2023

## Version number 6 (replaces version 5)

Revision: 31.05.2023

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## · 1.1 Product identifier

· Trade name: Washing Buffer (Concentrate 20x)

- · Article number: ITC82020 [WASH][20x]
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- · Application of the substance / the mixture In Vitro Diagnostic
- · 1.3 Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

HUMAN Gesellschaft für Biochemica und Diagnostica mbH Max-Planck-Ring 21 65205 Wiesbaden Germany phone +49 (0) 6122 99 88 0 fax: +49 (0) 6122 99 88 100 eMail: human@human.de

- Further information obtainable from: Head office, phone: +49 (0) 6122 99 88 0
- · 1.4 Emergency telephone number:

INFRASERV, Telephone +49(0) 69-305-6418, availability 24h per day (in german and english)

# **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Skin Sens. 1 H317 May cause an allergic skin reaction.

#### · 2.2 Label elements

- · Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.
- Hazard pictograms



## · Signal word Warning

- · Hazard-determining components of labelling:
- 2-Methyl-2H-isothiazol-3-on
- Hazard statements
- H317 May cause an allergic skin reaction.
- Precautionary statements
- P234 Keep only in original packaging.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P281 Use personal protective equipment as required.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- P337+P313 If eye irritation persists: Get medical advice/attention.
- P401 Store in accordance with local/regional/national/international regulations.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)



Printing date 31.05.2023

## Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Washing Buffer (Concentrate 20x)

(Contd. of page 1)

#### · 2.3 Other hazards

#### Results of PBT and vPvB assessment

· PBT:

This substance/mixture does not contain components classified as either persistent, bioaccumulative and toxic (PBT) at concentrations of 0.1% or higher.

#### vPvB:

This substance/mixture does not contain components classified as either very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

## **SECTION 3: Composition/information on ingredients**

#### · 3.2 Mixtures

· Description: Mixture of substances in aqueous solution.

· Dangerous comport	nents:	
CAS: 77-86-1	TRIS	≤2.5%
EINECS: 201-064-4	🚸 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 2682-20-4	2-Methyl-2H-isothiazol-3-on	≥0.1-<0.25%
EINECS: 220-239-6	<ul> <li>Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330;</li> <li>Skin Corr. 1B, H314; Eye Dam. 1, H318;  Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1);  Skin Sens. 1A, H317, EUH071</li> <li>Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.0015 %</li> </ul>	
· Additional informat	<b>ion:</b> For the wording of the listed hazard phrases refer to section 16.	

## **SECTION 4: First aid measures**

· 4.1 Description of first aid measures

• After inhalation: Supply fresh air; consult doctor in case of complaints.

• After skin contact:

- In case of contact, immediately flush with plenty of water. Consult doctor in case of complaints.
- After eye contact: Rinse opened eye for several minutes under running water.

· After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

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

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters

· Protective equipment: Fire-fighters should wear appropriate protective equipment.

## SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Not required.

• 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

(Contd. on page 3)



Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Washing Buffer (Concentrate 20x)

(Contd. of page 2)

- 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 6.4 Reference to other sections

Printing date 31.05.2023

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

No further requirements.

Keep container tightly sealed.

· 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2, no other specific uses are foreseen

## **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

Ingredients 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 valid during the making were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Respiratory protection: Not required.

#### Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

## 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/face protection Goggles recommended during refilling

(Contd. on page 4)



Printing date 31.05.2023

## Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Washing Buffer (Concentrate 20x)

(Contd. of page 3)

SECTION 9: Physical and chemical prop	erties		
$^{\cdot}$ 9.1 Information on basic physical and chemical p	properties		
· General Information			
· Colour:	Colourless		
· Odour:	Odourless		
· Odour threshold:	No information available.		
<ul> <li>Melting point/freezing point:</li> </ul>	No information available.		
Boiling point or initial boiling point and boiling			
range	100 °C (CAS: 7732-18-5 water, distilled, conductivit		
-	or of similar purity)		
· Flammability	No information available.		
Lower and upper explosion limit			
Lower:	No information available.		
· Upper:	No information available.		
· Flash point:	Not applicable.		
Auto-ignition temperature:	No information available.		
Decomposition temperature:	No information available.		
· pH at 20 °C	6.9		
· Viscosity:			
· Kinematic viscosity	No information available		
· Dynamic:	No information available.		
Solubility			
· water:	Fully miscible.		
· Partition coefficient n-octanol/water (log value)	No information available.		
· Vapour pressure at 20 °C:	23 hPa		
· Density and/or relative density	20111 4		
· Density at 20 °C:	1 g/cm³		
· Relative density	No information available.		
· Vapour density	No information available.		
• 9.2 Other information			
· Appearance:			
· Form:	Liquid		
· Important information on protection of health an			
environment, and on safety.	u		
· Ignition temperature:	Product is not selfigniting.		
· Explosive properties:	Product does not present an explosion hazard.		
· Solvent content:	י זטעטט עטפט זוטג אופטכווג מוז פאאוטטוטוו וומצמוע.		
· Water:	78.1 %		
Solids content:	17.9 %		
· Change in condition	11.3 /0		
· Evaporation rate	No information available.		
•			
·Information with regard to physical hazar	a		
classes			
· Explosives	Void		
Flammable gases	Void		
	Void		
Aerosols			
· Oxidising gases	Void		
· Oxidising gases · Gases under pressure	Void		
· Oxidising gases · Gases under pressure · Flammable liquids	Void Void		
· Oxidising gases · Gases under pressure	Void		

(Contd. on page 5)



Printing date 31.05.2023

#### Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Washing Buffer (Concentrate 20x)

		(Contd. of page 4
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flamm	nable	
gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

## **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)			
Oral	LD50	52,632 mg/kg	
	LD50	52,632 mg/kg 157,895 mg/kg	
Inhalative	LC50/4 h	26.3 mg/l	

CAS: 77-86-1 TRIS

•/.•	• • • • • •	
Oral	LD50	5,900 mg/kg (rat)
CAS: 2682	2-20-4 2-M	ethyl-2H-isothiazol-3-on
Oral	LD50	100 mg/kg (ATE)
Dermal	LD50	300 mg/kg (ATE)
Inhalative	LC50/4 h	0.05 mg/l (ATE)
<b>A</b> 1 1		

• Skin corrosion/irritation Based on available data, the classification criteria are not met.

· Serious eye damage/irritation Based on available data, the classification criteria are not met.

- Respiratory or skin sensitisation May cause an allergic skin reaction.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- $\cdot$  STOT-repeated exposure Based on available data, the classification criteria are not met.

• Aspiration hazard Based on available data, the classification criteria are not met.

(Contd. on page 6)



Printing date 31.05.2023

## Version number 6 (replaces version 5)

Revision: 31.05.2023

(Contd. of page 5)

## Trade name: Washing Buffer (Concentrate 20x)

· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

# SECTION 12: Ecological information

- 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- · Additional ecological information: No further relevant indications
- · General notes:

Water hazard class 2 (German Regulation) (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.

# **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

18 01 06\* chemicals consisting of or containing hazardous substances

- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport informati	on	
<ul> <li>14.1 UN number or ID number</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	not regulated	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	not regulated	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	not regulated	
<ul> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	not regulated	
		(Contd. on page 7)



Printing date 31.05.2023

Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Washing Buffer (Concentrate 20x)

		(Contd. of pag
· 14.5 Environmental hazards: · Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	
<ul> <li>14.7 Maritime transport in bulk according instruments</li> </ul>	<b>g to IMO</b> Not applicable.	
Transport/Additional information:		
· ADR · Limited quantities (LQ)	not regulated	
· UN "Model Regulation":	not regulated	

## SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.

## Hazard pictograms



#### · Signal word Warning

- · Hazard-determining components of labelling:
- 2-Methyl-2H-isothiazol-3-on
- Hazard statements

H317 May cause an allergic skin reaction.

#### **Precautionary statements**

Keep only in original packaging. P234 P260 Do not breathe dust/fume/gas/mist/vapours/spray. P262 Do not get in eyes, on skin, or on clothing. P281 Use personal protective equipment as required. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. P401 Store in accordance with local/regional/national/international regulations. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · Directive 2012/18/EU Named dangerous substances - ANNEX I None of the ingredients is listed. · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3 · DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II None of the ingredients is listed.



(Contd. on page 8)

IF

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

### Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Washing Buffer (Concentrate 20x)

(Contd. of page 7)

3

3

#### REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

#### **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

#### Regulation (EC) No 273/2004 on drug precursors

CAS: 7647-01-0 hydrogen chloride

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

CAS: 7647-01-0 hydrogen chloride

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## SECTION 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.

#### Relevant phrases

- Toxic if swallowed. H301
- Toxic in contact with skin. H311
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- EUH071 Corrosive to the respiratory tract.

#### · Version number of previous version: 5

#### · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 3: Acute toxicity - Category 3 Acute Tox. 2: Acute toxicity – Category 2 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1A: Skin sensitisation - Category 1A STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1



Printing date 31.05.2023

## Version number 6 (replaces version 5)

Revision: 31.05.2023

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## · 1.1 Product identifier

## · Trade name: Dilution Buffer

- Article number: ITC82020 [DIL]
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- · Application of the substance / the mixture In Vitro Diagnostic
- · 1.3 Details of the supplier of the safety data sheet

#### • Manufacturer/Supplier:

HUMAN Gesellschaft für Biochemica und Diagnostica mbH Max-Planck-Ring 21 65205 Wiesbaden Germany phone +49 (0) 6122 99 88 0 fax: +49 (0) 6122 99 88 100 eMail: human@human.de

- Further information obtainable from: Head office, phone: +49 (0) 6122 99 88 0
- · 1.4 Emergency telephone number:

INFRASERV, Telephone +49(0) 69-305-6418, availibility 24h per day (in german and english)

# **SECTION 2: Hazards identification**

## <sup>•</sup> 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008** The product is not classified, according to the CLP regulation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void

#### · Hazard statements Void

#### · Precautionary statements

- P234 Keep only in original packaging.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P281 Use personal protective equipment as required.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- P337+P313 If eye irritation persists: Get medical advice/attention.
- P401 Store in accordance with local/regional/national/international regulations.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 2.3 Other hazards

## Results of PBT and vPvB assessment

PBT:

This substance/mixture does not contain components classified as either persistent, bioaccumulative and toxic (PBT) at concentrations of 0.1% or higher.

vPvB:

This substance/mixture does not contain components classified as either very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

(Contd. on page 2)



Printing date 31.05.2023

Version number 6 (replaces version 5)

Trade name: Dilution Buffer

(Contd. of page 1)

## **SECTION 3: Composition/information on ingredients**

· 3.2 Mixtures

• **Description:** Mixture of substances in aqueous solution.

· Dangerous components: Void

Additional information: For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:

In case of contact, immediately flush with plenty of water. Consult doctor in case of complaints.

- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: Fire-fighters should wear appropriate protective equipment.

## **SECTION 6: Accidental release measures**

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- . 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

- · 7.1 Precautions for safe handling No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.

(Contd. on page 3)



Printing date 31.05.2023

#### Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Dilution Buffer

(Contd. of page 2)

#### • Further information about storage conditions:

No further requirements.

Keep container tightly sealed.

•7.3 Specific end use(s) Apart from the uses mentioned in section 1.2, no other specific uses are foreseen

## **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

#### · Ingredients 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 valid during the making were used as basis.

- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

- Respiratory protection: Not required.
- Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### 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/face protection Goggles recommended during refilling

# SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- · General Information
- · Colour:
- Odour:
- Odour threshold:
- Melting point/freezing point:
- Boiling point or initial boiling point and boiling range
- · Flammability
- · Lower and upper explosion limit
- · Lower:
- · Upper:
- · Flash point:
- · Auto-ignition temperature:

Red Odourless No information available. 0 °C

100 °C (CAS: 7732-18-5 water, distilled, conductivity or of similar purity) No information available.

No information available. No information available. Not applicable. No information available.

<sup>(</sup>Contd. on page 4)



Printing date 31.05.2023

## Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Dilution Buffer

	(Contd. of page
Decomposition temperature:	No information available.
· pH at 20 °C	7.3
· Viscosity:	
Kinematic viscosity	No information available
Dynamic at 20 °C:	0.952 mPas
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log value)	No information available.
Vapour pressure at 20 °C:	23 hPa
Density and/or relative density	
Density at 20 °C:	1.012 g/cm³
Relative density	No information available.
· Vapour density	No information available.
9.2 Other information	
Appearance:	
Form:	Liquid
Important information on protection of health an	
environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
Water:	96.0 %
Solids content:	1.8 %
Molecular weight	18.02 g/mol
Change in condition	18.02 g/1101
Evaporation rate	No information available.
Information with regard to physical hazar	
classes	u
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable	
	Void
gases in contact with water	
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals Desensitised explosives	Void Void

# **SECTION 10: Stability and reactivity**

• **10.1 Reactivity** No further relevant information available.

(Contd. on page 5)



Printing date 31.05.2023

#### Version number 6 (replaces version 5)

Revision: 31.05.2023

### Trade name: Dilution Buffer

(Contd. of page 4)

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · Additional toxicological information:

This product contains components from animal origin. Being of non-primate origin, these components avoid most of the risks associated with components based on human origin (e.g. Hepatitis B and C and HIV). Nevertheless this product should be handled as if potentially infectious.

· 11.2 Information on other hazards

#### · Endocrine disrupting properties

None of the ingredients is listed.

# **SECTION 12: Ecological information**

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Additional ecological information: No further relevant indications
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow product to reach ground water, water course or sewage system.

(Contd. on page 6)



Printing date 31.05.2023

#### Version number 6 (replaces version 5)

Revision: 31.05.2023

Trade name: Dilution Buffer

(Contd. of page 5)

## **SECTION 13: Disposal considerations**

#### · 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

## · European waste catalogue

18 01 03\* wastes whose collection and disposal is subject to special requirements in order to prevent infection

#### · Uncleaned packaging:

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

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information		
<ul> <li>14.1 UN number or ID number</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	not regulated	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	not regulated	
<ul> <li>14.3 Transport hazard class(es)</li> </ul>		
· ADR, ADN, IMDG, IATA · Class	not regulated	
· 14.4 Packing group · ADR, IMDG, IATA	not regulated	
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No	
· 14.6 Special precautions for user	Not applicable.	
<ul> <li>14.7 Maritime transport in bulk according t instruments</li> </ul>	t <b>o IMO</b> Not applicable.	
· Transport/Additional information:		
· ADR · Limited quantities (LQ)	not regulated	
· UN "Model Regulation":	not regulated	

# **SECTION 15: Regulatory information**

 $^{\cdot}$  15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Labelling according to Regulation (EC) No 1272/2008 Void

· Hazard pictograms Void

· Signal word Void

· Hazard statements Void

- Precautionary statements
- P234 Keep only in original packaging.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P262 Do not get in eyes, on skin, or on clothing.

(Contd. on page 7)



Printing date 31.05.2023

Version number 6 (replaces version 5)

Revision: 31.05.2023

## **Trade name: Dilution Buffer**

	(Contd. of page 6)	
P281 U	Jse personal protective equipment as required.	
	F ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with vater [or shower].	
P305+P351+P338 IF	F IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
	f eye irritation persists: Get medical advice/attention.	
	Store in accordance with local/regional/national/international regulations.	
	Dispose of contents/container in accordance with local/regional/national/international egulations.	
· Directive 2012/18/E	:U	
· Named dangerous	substances - ANNEX I None of the ingredients is listed.	
<ul> <li>DIRECTIVE 2011/65 electronic equipme</li> </ul>	5/EU on the restriction of the use of certain hazardous substances in electrical and ent – Annex II	
None of the ingredie	nts is listed.	
· REGULATION (EU) 2019/1148		
<ul> <li>Annex I - RESTRIC under Article 5(3))</li> </ul>	CTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing	
None of the ingredients is listed.		
Annex II - REPORT	ABLE EXPLOSIVES PRECURSORS	
None of the ingredients is listed.		
· Regulation (EC) No 273/2004 on drug precursors		
None of the ingredie	ints is listed.	
	o 111/2005 laying down rules for the monitoring of trade between the Community s in drug precursors	
None of the ingredie	nts is listed.	

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# SECTION 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.

#### Version number of previous version: 5

#### Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative



# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

## Version number 6 (replaces version 5)

Revision: 31.05.2023

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## · 1.1 Product identifier

### · Trade name: Conjugate Solution

- · Article number: ITC82020 [CON]
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- · Application of the substance / the mixture In Vitro Diagnostic

## · 1.3 Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

HUMAN Gesellschaft für Biochemica und Diagnostica mbH Max-Planck-Ring 21 65205 Wiesbaden Germany phone +49 (0) 6122 99 88 0 fax: +49 (0) 6122 99 88 100 eMail: human@human.de

- Further information obtainable from: Head office, phone: +49 (0) 6122 99 88 0
- · 1.4 Emergency telephone number:

INFRASERV, Telephone +49(0) 69-305-6418, availibility 24h per day (in german and english)

# **SECTION 2: Hazards identification**

#### · 2.1 Classification of the substance or mixture

## Classification according to Regulation (EC) No 1272/2008

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

#### · 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

#### Hazard pictograms



#### · Signal word Warning

## · Hazard-determining components of labelling:

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

#### Hazard statements

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

- P234 Keep only in original packaging.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P281 Use personal protective equipment as required.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.

(Contd. on page 2)



Printing date 31.05.2023

#### Version number 6 (replaces version 5)

Revision: 31.05.2023

### Trade name: Conjugate Solution

(Contd. of page 1) P401 Store in accordance with local/regional/national/international regulations. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 2.3 Other hazards

#### · Results of PBT and vPvB assessment

· PBT:

This substance/mixture does not contain components classified as either persistent, bioaccumulative and toxic (PBT) at concentrations of 0.1% or higher.

· vPvB:

This substance/mixture does not contain components classified as either very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

## **SECTION 3: Composition/information on ingredients**

#### · 3.2 Mixtures

· Description: Mixture of substances in aqueous solution.

#### Dangerous components:

2		
CAS: 55965-84-9	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-	≥0.0025-<0.025%
	500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	
	Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330;	
	🚸 Skin Corr. 1C, H314; Eye Dam. 1, H318; 🚯 Aquatic Acute 1, H400	
	(Ň=100); Aquatic Chronic 1, H410 (M=100); 🟠 Skin Sens. 1A, H317	
	Specific concentration limits: Skin Corr. 1C; H $314$ : C $\ge$ 0.6 %	
	Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 %	
	Eye Dam. 1; H318: C ≥ 0.6 %	
	Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 %	
	Skin Sens. 1A; H317: C ≥ 0.0015 %	
Additional information: For the wording of the listed hazard phrases refer to section 16.		

## **SECTION 4: First aid measures**

#### · 4.1 Description of first aid measures

After inhalation:

Supply fresh air and to be sure call for a 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: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **SECTION 5: Firefighting measures**

- 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.

(Contd. on page 3)



Version number 6 (replaces version 5)

Revision: 31.05.2023

Trade name: Conjugate Solution

Printing date 31.05.2023

(Contd. of page 2)

<sup>•</sup> 5.3 Advice for firefighters

• Protective equipment: Fire-fighters should wear appropriate protective equipment.

## **SECTION 6: Accidental release measures**

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

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

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about fire - and explosion protection: No special measures required.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:

• Requirements to be met by storerooms and receptacles: No special requirements.

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

No further requirements.

Keep container tightly sealed.

•7.3 Specific end use(s) Apart from the uses mentioned in section 1.2, no other specific uses are foreseen

## **SECTION 8: Exposure controls/personal protection**

### · 8.1 Control parameters

Ingredients 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 valid during the making were used as basis.

- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Immediately remove all solled and contaminated clothing Wash hands before breaks and at the end of work.

## Respiratory protection:

Not required.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

(Contd. on page 4)



Printing date 31.05.2023

Version number 6 (replaces version 5)

Revision: 31.05.2023

## **Trade name: Conjugate Solution**

(Contd. of page 3)

## Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### 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/face protection Goggles recommended during refilling

## SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties General Information · Colour: Yellowish · Odour: Odourless · Odour threshold: No information available. · Melting point/freezing point: No information available. Boiling point or initial boiling point and boiling 100 °C (CAS: 7732-18-5 water, distilled, conductivity range or of similar purity) · Flammability No information available. · Lower and upper explosion limit No information available. · Lower: · Upper: No information available. · Flash point: Not applicable. · Auto-ignition temperature: No information available. No information available. · Decomposition temperature: · pH at 20 °C 7.2 · Viscosity: · Kinematic viscosity No information available · Dynamic: No information available. · Solubility Fully miscible. · water: · Partition coefficient n-octanol/water (log value) No information available. · Vapour pressure at 20 °C: 23 hPa · Density and/or relative density Density at 20 °C: 1 g/cm<sup>3</sup> · Relative density No information available. · Vapour density No information available.

(Contd. on page 5)



Printing date 31.05.2023

### Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Conjugate Solution

	(Contd. of page
9.2 Other information	
Appearance:	
Form:	Liquid
Important information on protection of health	h and
environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
Water:	75.3 %
Solids content:	0.7 %
Change in condition	
Evaporation rate	No information available.
Information with regard to physical ha	azard
classes Explosives	Void
Explosives	Void
Flammable gases Aerosols	Void
	Void
Oxidising gases	
Gases under pressure	Void Void
Flammable liquids Flammable solids	Void Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flamma	
gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

## SECTION 10: Stability and reactivity

• 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

• Acute toxicity Based on available data, the classification criteria are not met.

(Contd. on page 6)

IF



Printing date 31.05.2023

## Version number 6 (replaces version 5)

Revision: 31.05.2023

Trade name: Conjugate Solution

(Contd. of page 5)			
· LD/LC50 values relevant for classification:			
CAS: 55965-84-9 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2- methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)			
Oral LD50 100 mg/kg (ATE)			
Dermal LD50 50 mg/kg (ATE)			
Inhalative LC50/4 h 0.05 mg/l (ATE)			
• Skin corrosion/irritation Based on available data, the classification criteria are not met.			
• Skin corrosion/irritation based on available data, the classification criteria are not met.			
• Respiratory or skin sensitisation May cause an allergic skin reaction.			
• Germ cell mutagenicity Based on available data, the classification criteria are not met.			
• Carcinogenicity Based on available data, the classification criteria are not met.			
• <b>Reproductive toxicity</b> Based on available data, the classification criteria are not met.			
• STOT-single exposure Based on available data, the classification criteria are not met.			
• STOT-repeated exposure Based on available data, the classification criteria are not met.			
Aspiration hazard Based on available data, the classification criteria are not met.			
Additional toxicological information:			
This product contains components from animal origin. Being of non-primate origin, these components avoid			
most of the risks associated with components based on human origin (e.g. Hepatitis B and C and HIV).			
Nevertheless this product should be handled as if potentially infectious.			
· 11.2 Information on other hazards			
· Endocrine disrupting properties			
None of the ingredients is listed.			
SECTION 12: Ecological information			
· 12.1 Toxicity			
<ul> <li>Aquatic toxicity: No further relevant information available.</li> <li>12.2 Persistence and degradability No further relevant information available.</li> </ul>			
• 12.3 Bioaccumulative potential No further relevant information available.			
<ul> <li>12.4 Mobility in soil No further relevant information available.</li> <li>12.5 Results of PBT and vPvB assessment</li> </ul>			
• PBT: Not applicable.			
· <b>vPvB:</b> Not applicable.			
· 12.6 Endocrine disrupting properties			
The product does not contain substances with endocrine disrupting properties.			
· 12.7 Other adverse effects			
<ul> <li>Additional ecological information: No further relevant indications</li> </ul>			
· General notes:			
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water			
Do not allow product to reach ground water, water course or sewage system.			
SECTION 13: Disposal considerations			

#### · 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

## · European waste catalogue

18 01 03\* wastes whose collection and disposal is subject to special requirements in order to prevent infection

(Contd. on page 7)



Version number 6 (replaces version 5)

Revision: 31.05.2023

Trade name: Conjugate Solution

Printing date 31.05.2023

(Contd. of page 6)

· Uncleaned packaging:

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

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

# **SECTION 14: Transport information**

<ul> <li>14.1 UN number or ID number</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	not regulated
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	not regulated
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	not regulated
· 14.4 Packing group · ADR, IMDG, IATA	not regulated
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	Νο
<ul> <li>14.6 Special precautions for user</li> </ul>	Not applicable.
<ul> <li>14.7 Maritime transport in bulk according to IM instruments</li> </ul>	O Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ)	not regulated
UN "Model Regulation":	not regulated

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



· Signal word Warning

Hazard-determining components of labelling:

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

## Hazard statements

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

(Contd. on page 8)

IE



Printing date 31.05.2023

#### Version number 6 (replaces version 5)

Revision: 31.05.2023

# Trade name: Conjugate Solution

(Contd. of page 7)

<ul> <li>Precautionary s</li> </ul>	statements	
P234	Keep only in original packaging.	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P262	Do not get in eyes, on skin, or on clothing.	
P281	Use personal protective equipment as required.	
P303+P361+P35	53 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].	
P305+P351+P33	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if	
	present and easy to do. Continue rinsing.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P401	Store in accordance with local/regional/national/international regulations.	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.	
· Directive 2012/1	18/EU	
	bus substances - ANNEX I None of the ingredients is listed.	
	EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3	
•	1/65/EU on the restriction of the use of certain hazardous substances in electrical and	
	oment – Annex II	
None of the ingre	edients is listed.	
· REGULATION (	EU) 2019/1148	
· Annex I - REST under Article 5(	RICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing 3))	
None of the ingredients is listed.		
Annex II - REPORTABLE EXPLOSIVES PRECURSORS		
None of the ingre	edients is listed.	
· Regulation (EC)	) No 273/2004 on drug precursors	
None of the ingre	edients is listed.	
and third count	) No 111/2005 laying down rules for the monitoring of trade between the Community ries in drug precursors	
None of the ingre		
<ul> <li>15.2 Chemical s</li> </ul>	safety assessment: A Chemical Safety Assessment has not been carried out.	

# **SECTION 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.

#### Relevant phrases

H301 Toxic if swallowed.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

• Version number of previous version: 5

#### · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

(Contd. on page 9)



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Printing date 31.05.2023

## Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Conjugate Solution

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 2: Acute toxicity – Category 2 Skin Corr. 1C: Skin corrosion/irritation – Category 1C Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1A Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1	(Contd. of page 8)
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3	



Printing date 31.05.2023

## Version number 6 (replaces version 5)

Revision: 31.05.2023

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## · 1.1 Product identifier

## • Trade name: TMB Solution

- · Article number: ITC82020 [SUB]
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- · Application of the substance / the mixture In Vitro Diagnostic

## · 1.3 Details of the supplier of the safety data sheet

#### • Manufacturer/Supplier:

HUMAN Gesellschaft für Biochemica und Diagnostica mbH Max-Planck-Ring 21 65205 Wiesbaden Germany phone +49 (0) 6122 99 88 0 fax: +49 (0) 6122 99 88 100 eMail: human@human.de

• Further information obtainable from: Head office, phone: +49 (0) 6122 99 88 0

## · 1.4 Emergency telephone number:

INFRASERV, Telephone +49(0) 69-305-6418, availability 24h per day (in german and english)

# **SECTION 2: Hazards identification**

## <sup>•</sup> 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008** The product is not classified, according to the CLP regulation.

#### · 2.2 Label elements

- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void

#### · Hazard statements Void

#### · Precautionary statements

- P234 Keep only in original packaging.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P281 Use personal protective equipment as required.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- P337+P313 If eye irritation persists: Get medical advice/attention.
- P401 Store in accordance with local/regional/national/international regulations.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 2.3 Other hazards

## Results of PBT and vPvB assessment

PBT:

This substance/mixture does not contain components classified as either persistent, bioaccumulative and toxic (PBT) at concentrations of 0.1% or higher.

vPvB:

This substance/mixture does not contain components classified as either very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

(Contd. on page 2)



Printing date 31.05.2023

Version number 6 (replaces version 5)

Trade name: TMB Solution

(Contd. of page 1)

## **SECTION 3: Composition/information on ingredients**

· 3.2 Mixtures

• **Description:** Mixture of substances in aqueous solution.

· Dangerous components:

CAS: 616-45-5 EINECS: 210-483-1 2-pyrrolidone Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319 2.5-5%

• Additional information: For the wording of the listed hazard phrases refer to section 16.

# **SECTION 4: First aid measures**

· 4.1 Description of first aid measures

· General information: No special measures required.

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:
- In case of contact, immediately flush with plenty of water. Consult doctor in case of complaints.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

• Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters

• Protective equipment: Fire-fighters should wear appropriate protective equipment.

# **SECTION 6: Accidental release measures**

· 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.

• 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

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

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:

• Requirements to be met by storerooms and receptacles: No special requirements.

(Contd. on page 3)



Printing date 31.05.2023

## Version number 6 (replaces version 5)

Revision: 31.05.2023

Trade name: TMB Solution

(Contd. of page 2) • Information about storage in one common storage facility: Store away from oxidising agents. • Further information about storage conditions:

No further requirements.

Keep container tightly sealed.

•7.3 Specific end use(s) Apart from the uses mentioned in section 1.2, no other specific uses are foreseen

## **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

### Ingredients 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 valid during the making were used as basis.

#### · 8.2 Exposure controls

- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures: Do not eat, drink, smoke or sniff while working.
- Respiratory protection: Not required.

#### Hand protection

Protective gloves for handling chemicals must meet the requirements of the European standard EN 374.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

## Material of gloves

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

Penetration time (maximum wearing time): 480 min

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection Goggles recommended during refilling

# SECTION 9: Physical and chemical properties

- $^{\rm \cdot}$  9.1 Information on basic physical and chemical properties
- · General Information
- · Colour:
- Odour:
- Odour threshold:
- Melting point/freezing point:
- Boiling point or initial boiling point and boiling range
- · Flammability
- · Lower and upper explosion limit

· Lower:

#### Colourless Odourless No information available. 0 °C

100 °C (CAS: 7732-18-5 water, distilled, conductivity or of similar purity) No information available.

No information available.

(Contd. on page 4)

IF



Printing date 31.05.2023

## Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: TMB Solution

	(Contd. of page
Upper:	No information available.
Flash point:	Not applicable.
Decomposition temperature:	No information available.
pH at 20 °C	3.7
Viscosity:	
Kinematic viscosity	No information available
Dynamic at 20 °C:	0.952 mPas
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log value)	No information available.
Vapour pressure at 20 °C:	23 hPa
Density and/or relative density	
Density at 20 °C:	1 g/cm <sup>3</sup>
Relative density	No information available.
Vapour density	No information available.
9.2 Other information	
Appearance:	
Form:	Liquid
Important information on protection of health a	Liquid
	lu
environment, and on safety.	Draduct is not colfigniting
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
Water:	95.0 %
Solids content:	0.0 %
Molecular weight	18.02 g/mol
Change in condition	
Evaporation rate	No information available.
Information with regard to physical haza	rd
classes	
Explosives	Void
Flammable gases	Void
Flammable gases Aerosols	Void Void
Flammable gases Aerosols Oxidising gases	Void Void Void
Flammable gases Aerosols Oxidising gases Gases under pressure	Void Void
Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids	Void Void Void
Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids	Void Void Void Void
Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids	Void Void Void Void Void
Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures	Void Void Void Void Void
Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids	Void Void Void Void Void Void
Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures	Void Void Void Void Void Void Void
Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures	Void Void Void Void Void Void Void Void
Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammabl	Void Void Void Void Void Void Void Void
Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammabl gases in contact with water	Void Void Void Void Void Void Void Void
Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammabl gases in contact with water Oxidising liquids	Void Void Void Void Void Void Void Void
Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammabl gases in contact with water Oxidising liquids Oxidising solids	Void Void Void Void Void Void Void Void
Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammabl	Void Void Void Void Void Void Void Void

(Contd. on page 5)



Printing date 31.05.2023

Version number 6 (replaces version 5)

Revision: 31.05.2023

#### Trade name: TMB Solution

(Contd. of page 4)

## **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.

<sup>·</sup> 10.4 Conditions to avoid

Light sensitive.

Store away from heat.

Stable if the recommended storage and handling instructions are followed.

- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

 $^{\cdot}$  11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

• Acute toxicity Based on available data, the classification criteria are not met.

## · LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 6,694 mg/kg (rat)

#### CAS: 616-45-5 2-pyrrolidone

Oral LD50 328 mg/kg (rat)

Skin corrosion/irritation Based on available data, the classification criteria are not met.

- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

• 11.2 Information on other hazards

• Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

#### · 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Additional ecological information: No further relevant indications

(Contd. on page 6)



Printing date 31.05.2023

Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: TMB Solution

(Contd. of page 5)

**General notes:** 

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow product to reach ground water, water course or sewage system.

## **SECTION 13: Disposal considerations**

#### · 13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

## · European waste catalogue

18 01 07 chemicals other than those mentioned in 18 01 06

### · Uncleaned packaging:

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

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information		
<ul> <li>14.1 UN number or ID number</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	not regulated	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	not regulated	
<ul> <li>14.3 Transport hazard class(es)</li> </ul>		
· ADR, ADN, IMDG, IATA · Class	not regulated	
<ul> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	not regulated	
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No	
<sup>•</sup> 14.6 Special precautions for user	Not applicable.	
• 14.7 Maritime transport in bulk according to IMO instruments Not applicable.		
· Transport/Additional information:		
· ADR · Limited quantities (LQ)	not regulated	
· UN "Model Regulation":	not regulated	

# **SECTION 15: Regulatory information**

 $^{\circ}$  15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void

(Contd. on page 7)

IE



Printing date 31.05.2023

#### Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: TMB Solution

· Precautionary statements

(Contd. of page 6)

i recautionary sta		
P234	Keep only in original packaging.	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P262	Do not get in eyes, on skin, or on clothing.	
P281	Use personal protective equipment as required.	
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P401	Store in accordance with local/regional/national/international regulations.	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Directive 2012/18/EU Named dangerous substances - ANNEX I None of the ingredients is listed.		

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

**REGULATION (EU) 2019/1148** 

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **SECTION 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.

#### **Relevant phrases**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

· Version number of previous version: 5

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

(Contd. on page 8)



Printing date 31.05.2023

## Version number 6 (replaces version 5)

Revision: 31.05.2023

(Contd. of page 7)

IE

## Trade name: TMB Solution

Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

> HUMAN Diagnostics Worldwide

Printing date 31.05.2023

## Version number 6 (replaces version 5)

Revision: 31.05.2023

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## · 1.1 Product identifier

- Trade name: <u>Stop Solution</u>
- · Article number: ITC82020 [STOP]
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- · Application of the substance / the mixture In Vitro Diagnostic
- · 1.3 Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

HUMAN Gesellschaft für Biochemica und Diagnostica mbH Max-Planck-Ring 21 65205 Wiesbaden Germany phone +49 (0) 6122 99 88 0 fax: +49 (0) 6122 99 88 100 eMail: human@human.de

- Further information obtainable from: Head office, phone: +49 (0) 6122 99 88 0
- · 1.4 Emergency telephone number:

INFRASERV, Telephone +49(0) 69-305-6418, availibility 24h per day (in german and english)

# **SECTION 2: Hazards identification**

## • 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

#### Hazard pictograms



· Signal word Warning

- · Hazard-determining components of labelling:
- sulphuric acid
- Hazard statements
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

## Precautionary statements

- P234 Keep only in original packaging.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P281 Use personal protective equipment as required.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.

(Contd. on page 2)



Printing date 31.05.2023

Version number 6 (replaces version 5)

Revision: 31.05.2023

#### **Trade name: Stop Solution**

(Contd. of page 1) P401 Store in accordance with local/regional/national/international regulations. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· 2.3 Other hazards

## · Results of PBT and vPvB assessment

· PBT:

This substance/mixture does not contain components classified as either persistent, bioaccumulative and toxic (PBT) at concentrations of 0.1% or higher.

· vPvB:

This substance/mixture does not contain components classified as either very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

· Description: Mixture of substances in aqueous solution.

· Dangerous components:		
	sulphuric acid	≥2.5-<5%
EINECS: 231-639-5	-5	
	Specific concentration limits: Skin Corr. 1A; H314: C ≥ 15 %	
	Skin Irrit. 2; H315: 5 % ≤ C < 15 %	
	Eye Irrit. 2; H319: 5 % ≤ C < 15 %	
Additional information: For the wording of the listed bazard phrases refer to section 16		

Additional information: For the wording of the listed hazard phrases refer to section 16.

## **SECTION 4: First aid measures**

· 4.1 Description of 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.

- · After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

# SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters

Protective equipment: Fire-fighters should wear appropriate protective equipment.

## SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions: Dilute with plenty of water.

(Contd. on page 3)



Printing date 31.05.2023

Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Stop Solution

(Contd. of page 2)

### 6.3 Methods and material for containment and cleaning up:

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

## · 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

#### · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about fire - and explosion protection: No special measures required.

## · 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- No further requirements.

Keep container tightly sealed.

· 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2, no other specific uses are foreseen

## **SECTION 8: Exposure controls/personal protection**

## · 8.1 Control parameters

<sup>•</sup> Ingredients with limit values that require monitoring at the workplace:

CAS: 7664-93-9 sulphuric acid

OEL Long-term value: 0.05 mg/m<sup>3</sup> IOELV

· Additional information: The lists valid during the making were used as basis.

- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as 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.

## Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 4)

IE



Printing date 31.05.2023

Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Stop Solution

(Contd. of page 3) Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### 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/face protection



Tightly sealed goggles

# **SECTION 9: Physical and chemical properties**

· 9.1 Information on basic physical and chemical properties		
· General Information	noperties	
· Colour:	Colourless	
· Odour:	Odourless	
· Odour threshold:	No information available.	
• Melting point/freezing point:	0 °C	
· Boiling point or initial boiling point and boiling		
range	100 °C (CAS: 7732-18-5 water, distilled, conductivity	
	or of similar purity)	
· Flammability	No information available.	
· Lower and upper explosion limit		
· Lower:	No information available.	
· Upper:	No information available.	
Flash point:	Not applicable.	
Auto-ignition temperature:	No information available.	
<ul> <li>Decomposition temperature:</li> </ul>	No information available.	
· pH at 20 °C	<1	
· Viscosity:		
Kinematic viscosity	No information available	
<sup>·</sup> Dynamic at 20 °C:	0.952 mPas	
· Solubility		
· water:	Fully miscible.	
<ul> <li>Partition coefficient n-octanol/water (log value)</li> </ul>	No information available.	
· Vapour pressure at 20 °C:	23 hPa	
Density and/or relative density		
Density at 20 °C:	1.0232 g/cm <sup>3</sup>	
· Relative density	No information available.	
· Vapour density	No information available.	
	(Contd. on page 5)	



Printing date 31.05.2023

## Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Stop Solution

	(Contd. of page
9.2 Other information	
Appearance:	
Form:	Liquid
Important information on protection of healt	
environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
Water:	97.2 %
Solids content:	0.0 %
Molecular weight	18.02 g/mol
Change in condition	C C
Evaporation rate	No information available.
Flammable gases Aerosols	Void Void
Explosives	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flamm	able
gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void

## **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.

(Contd. on page 6)

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Printing date 31.05.2023

Version number 6 (replaces version 5)

Revision: 31.05.2023

(Contd. of page 5)

Trade name: Stop Solution

LD/LC50 values relevant for classification:

## CAS: 7664-93-9 sulphuric acid

Inhalative inhalative 510 mg/m3 (rat)

Skin corrosion/irritation Causes skin irritation.

- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards

#### · Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Additional ecological information: No further relevant indications
- General notes:
- Not hazardous for water.

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.

## **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

18 01 06\* chemicals consisting of or containing hazardous substances

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

(Contd. on page 7)



Printing date 31.05.2023

## Version number 6 (replaces version 5)

Revision: 31.05.2023

(Contd. of page 6)

Trade name: Stop Solution

SECTION 14: Transport informatio	n	
· 14.1 UN number or ID number · ADR, ADN, IMDG, IATA	not regulated	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	not regulated	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	not regulated	
· 14.4 Packing group · ADR, IMDG, IATA	not regulated	
· 14.5 Environmental hazards: · Marine pollutant:	Νο	
· 14.6 Special precautions for user	Not applicable.	
<ul> <li>14.7 Maritime transport in bulk according instruments</li> </ul>	to IMO Not applicable.	
· Transport/Additional information:		
· ADR · Limited quantities (LQ)	not regulated	
· UN "Model Regulation":	not regulated	

# **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
   Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.

Hazard pictograms



## · Signal word Warning

- · Hazard-determining components of labelling:
- sulphuric acid
- · Hazard statements
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

### · Precautionary statements

- P234 Keep only in original packaging.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P281 Use personal protective equipment as required.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

(Contd. on page 8)



Printing date 31.05.2023

#### Version number 6 (replaces version 5)

Revision: 31.05.2023

#### Trade name: Stop Solution

### (Contd. of page 7) P337+P313 If eye irritation persists: Get medical advice/attention. P401 Store in accordance with local/regional/national/international regulations. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Directive 2012/18/EU · Named dangerous substances - ANNEX I None of the ingredients is listed. · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3 DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II None of the ingredients is listed. **REGULATION (EU) 2019/1148** Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)) None of the ingredients is listed. **Annex II - REPORTABLE EXPLOSIVES PRECURSORS** None of the ingredients is listed. Regulation (EC) No 273/2004 on drug precursors CAS: 7664-93-9 sulphuric acid 3 Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors CAS: 7664-93-9 sulphuric acid 3 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 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.

#### **Relevant phrases**

- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage.

· Version number of previous version: 5

## Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Met. Corr.1: Corrosive to metals Category 1
- Skin Corr. 1A: Skin corrosion/irritation Category 1A
- Skin Irrit. 2: Skin corrosion/irritation Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation Category 2



# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2023

## Version number 6 (replaces version 5)

Revision: 31.05.2023

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## · 1.1 Product identifier

## · Trade name: Mikrotiter Plate

- · Article number: ITC82020 [MTP]
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- · Application of the substance / the mixture In Vitro Diagnostic
- · 1.3 Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

HUMAN Gesellschaft für Biochemica und Diagnostica mbH Max-Planck-Ring 21 65205 Wiesbaden Germany phone +49 (0) 6122 99 88 0 fax: +49 (0) 6122 99 88 100 eMail: human@human.de

- Further information obtainable from: Head office, phone: +49 (0) 6122 99 88 0
- · 1.4 Emergency telephone number:

INFRASERV, Telephone +49(0) 69-305-6418, availibility 24h per day (in german and english)

# **SECTION 2: Hazards identification**

## • 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008** The product is not classified, according to the CLP regulation.

#### · 2.2 Label elements

- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Precautionary statements
- P234 Keep only in original packaging.
- P281 Use personal protective equipment as required.
- P401 Store in accordance with local/regional/national/international regulations.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- · 2.3 Other hazards

## · Results of PBT and vPvB assessment

· PBT:

This substance/mixture does not contain components classified as either persistent, bioaccumulative and toxic (PBT) at concentrations of 0.1% or higher.

#### · vPvB:

This substance/mixture does not contain components classified as either very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

# **SECTION 3: Composition/information on ingredients**

- · 3.2 Mixtures
- · Description: solid polystyrene strips, breakable, coated with recombinant antigen(s)
- · Dangerous components: Void
- Additional information: For the wording of the listed hazard phrases refer to section 16.

(Contd. on page 2)



Printing date 31.05.2023

### Version number 6 (replaces version 5)

Revision: 31.05.2023

Trade name: Mikrotiter Plate

(Contd. of page 1)

## **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:
- In case of contact, immediately flush with plenty of water. Consult doctor in case of complaints.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: Fire-fighters should wear appropriate protective equipment.

## **SECTION 6: Accidental release measures**

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions: No special measures required.
- 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
- · 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

- · 7.1 Precautions for safe handling No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- No further requirements.
- Keep container tightly sealed.
- •7.3 Specific end use(s) Apart from the uses mentioned in section 1.2, no other specific uses are foreseen

(Contd. on page 3)



Printing date 31.05.2023

#### Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Mikrotiter Plate

(Contd. of page 2)

## **SECTION 8: Exposure controls/personal protection**

## · 8.1 Control parameters

· Ingredients 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 valid during the making were used as basis.

#### · 8.2 Exposure controls

• Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment

#### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: Not required.

#### Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

### 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/face protection Not required.

## SECTION 9: Physical and chemical properties

Colour:	Colourless	
Odour:	Odourless	
Odour threshold:	No information available.	
Melting point/freezing point:	No information available.	
Boiling point or initial boiling point and	boiling	
range	No information available.	
Flammability	Not determined.	
Lower and upper explosion limit		
Lower:	No information available.	
Upper:	No information available.	
Flash point:	Not applicable.	
Decomposition temperature:	No information available.	
pH	Not applicable.	
Viscosity:		
Kinematic viscosity	Not applicable.	
Dynamic:	Not applicable.	
Solubility		
water:	Insoluble.	



Printing date 31.05.2023

**Trade name: Mikrotiter Plate** 

Version number 6 (replaces version 5)

Revision: 31.05.2023

	(Contd. of p
Partition coefficient n-octanol/water (log value)	No information available.
Vapour pressure:	Not applicable.
Density and/or relative density	
Density:	No information available.
Relative density	No information available.
Vapour density	Not applicable.
Particle characteristics	See section 3.
9.2 Other information	
Appearance:	
Form:	Solid
Important information on protection of health and	1
environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
Solids content:	100.0 %
Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical hazard	1
classes	-
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable	
gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

# **SECTION 10: Stability and reactivity**

• **10.1 Reactivity** No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.

• 10.6 Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 5)

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Printing date 31.05.2023

#### Version number 6 (replaces version 5)

Revision: 31.05.2023

## Trade name: Mikrotiter Plate

(Contd. of page 4)

## **SECTION 11: Toxicological information**

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards

## Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- <sup>•</sup> 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- · Additional ecological information: No further relevant indications
- · General notes: Not hazardous for water.

## **SECTION 13: Disposal considerations**

- <sup>·</sup> 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

18 01 07 chemicals other than those mentioned in 18 01 06

· Uncleaned packaging:

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

# **SECTION 14: Transport information**

· 14.1 UN number or ID number

· ADR, ADN, IMDG, IATA

not regulated

(Contd. on page 6)



Printing date 31.05.2023

#### Version number 6 (replaces version 5)

Revision: 31.05.2023

Trade name: Mikrotiter Plate

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not regulated
not regulated
not regulated
Not applicable.
Not applicable.
IMO
Not applicable.
not regulated
not regulated
-

## **SECTION 15: Regulatory information**

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Labelling according to Regulation (EC) No 1272/2008 Void

· Hazard pictograms Void

- · Signal word Void
- · Hazard statements Void

Precautionary statements

P234 Keep only in original packaging.

P281 Use personal protective equipment as required.

P401 Store in accordance with local/regional/national/international regulations.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

**REGULATION (EU) 2019/1148** 

 Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

(Contd. on page 7)



Printing date 31.05.2023

### Version number 6 (replaces version 5)

Revision: 31.05.2023

Trade name: Mikrotiter Plate

(Contd. of page 6) • **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## **SECTION 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.

#### · Version number of previous version: 5

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

