

# 07.08.2020 Kit components

| Product code | Description   |
|--------------|---|
| 3600028      | TeSeE® Bovine Spongiform Encephalopathy Antigen Test Kit, ELISA |
| 4307913      |   |
| Components:  |   |
| 5144A        | Grinding Tube   |
| 5144B        | Reagent A - Denaturing Solution                                 |
| 1641         | Reagent B - Clarifying Solution                                 |
| 5144D        | Reagent C1 - Resolving Solution                                 |
| 3551100      | BSE Proteinase K  |



Page 1/6

## Safety data sheet according to 1907/2006/EC. Article 31

Printing date 07.08.2020 Revision: 30.07.2020

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

- · 1.1 Product identifier
- · Trade name: Grinding Tube
- · Article number: 5144A
- · 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 Laboratory chemicals
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Bio-Rad Laboratories Ltd.

The Junction Station Road

Watford

Hertfordshire WD17 1ET

e:mail contact: techsupport.uk@bio-rad.com

phone: +44 00 800 00 246 723 fax: +44 01 923 47 1340

- · Information department: techsupport.uk@bio-rad.com
- · 1.4 Emergency telephone number: 020-8328-2000

#### 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 Not Applicable
- · Hazard pictograms Not Applicable
- · Signal word Not Applicable
- · Hazard statements Not Applicable
- · Additional information:

Contains ProClin 300. May produce an allergic reaction.

Safety data sheet available on request.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description:

7732-18-5 water

- · Identification number(s):
- · EC number: 231-791-2
- · 3.2 Chemical characterisation: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components: Not applicable.

(Contd. on page 2)



Page 2/6

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Grinding Tube

(Contd. of page 1)

· 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 Generally the product does not irritate the skin.
- · After eye contact Rinse opened eye for several minutes under running water.
- · After swallowing Rinse mouth with water. Seek medical attention and appropriate follow-up.
- · 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 fighting measures that suit the environment.
- · 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

#### SECTION 6: Accidental release measures

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

No dangerous substances are released.

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 protection against explosions and fires: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.

(Contd. on page 3)





Revision: 30.07.2020 Printing date 07.08.2020

Trade name: Grinding Tube

(Contd. of page 2)

· 7.3 Specific end use(s) No further relevant information available.

# SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · 8.1 Control parameters
- · Components with limit values that require monitoring at the workplace:

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

- · Additional information: The lists that were valid during the creation were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures Wash hands before breaks and at the end of work.
- · Protection of hands: Protective gloves.
- · Material of gloves Synthetic gloves
- · Penetration time of glove material

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

· Eye protection: Safety glasses

| SECTION 9: Physical and chemical properties  |                                   |                 |
|--|-----------------------------------|-----------------|
| · 9.1 Information on basic physical a<br>· General Information                                 | nd chemical properties            |                 |
| · Appearance:  |                                   |                 |
| Form:  | Fluid                             |                 |
| Colour:  | Colourless                        |                 |
| · Odour:   | Odourless                         |                 |
| · Odour threshold:   | Not determined.                   |                 |
| · pH-value at 20 °C:   | 7                                 |                 |
| · Change in condition<br>Melting point/freezing point:<br>Initial boiling point and boiling ra | 0 °C<br><b>nge:</b> undetermined  |                 |
| · Flash point:   | Not applicable<br>Not determined. |                 |
| · Flammability (solid, gaseous)  | Not determined.                   |                 |
| · Decomposition temperature:   | Not determined.                   |                 |
| · Self igniting:   | Product is not selfigniting.      |                 |
| · Explosive properties:  | Not determined.                   |                 |
| · Explosion limits:  |                                   |                 |
| Lower:   | Not determined.                   |                 |
| Upper:   | Not determined.                   |                 |
|  |                                   | (Contd. on page |

(Contd. on page 4)





Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Grinding Tube

|   |  | (Contd. of page 3 |
|---|--|-------------------|
| · Vapour pressure at 20 °C:               | 23 hPa                                     |                   |
| · Density:                                | Not determined                             |                   |
| · Relative density                        | Not determined.                            |                   |
| · Vapour density                          | Not applicable.                            |                   |
| · Evaporation rate                        | Not applicable.                            |                   |
| · Solubility in / Miscibility with        |  |                   |
| Water:                                    | Fully miscible                             |                   |
| · Partition coefficient: n-octanol/water: | Not determined.                            |                   |
| · Viscosity:                              |  |                   |
| dynamic:                                  | Not applicable.                            |                   |
| kinematic:                                | Not applicable.                            |                   |
| · Solvent content:                        |  |                   |
| Water:                                    | 95.1 %                                     |                   |
| Solids content:                           | 4.9 %                                      |                   |
| · 9.2 Other information                   | No further relevant information available. |                   |

# 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 toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values that are relevant for classification:

#### 26628-22-8 sodium azide

Oral LD50 (static) 27 mg/kg (Rat) 27 mg/kg (mouse)

- · Primary irritant effect:
- · 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.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.

(Contd. on page 5)





Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Grinding Tube

(Contd. of page 4)

- · 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.

## **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.
- Additional ecological information:
- · General notes: Generally not hazardous for water.
- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose of waste in accordance to applicable national, regional, or local regulations.

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

| 14.1 UN-Number                  |              |  |
|---------------------------------|--------------|--|
| ADR, ADN, IMDG, IATA            | Not Reguated |  |
| 14.2 UN proper shipping name    |              |  |
| ADR                             | Not Reguated |  |
|                                 | Not Reguated |  |
| ADN, IMDG, IATA                 | Not Reguated |  |
| 14.3 Transport hazard class(es) |              |  |
| ADR, ADN, IMDG, IATA            |              |  |
| Class                           | Not Reguated |  |
| 14.4 Packing group              |              |  |
| ADR, IMDG, IATA                 | Not Reguated |  |





Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Grinding Tube

|   | (Contd. of page 5)                                   |
|---|--|
| · 14.5 Environmental hazards: · Marine pollutant:   | No   |
| · 14.6 Special precautions for user   | Not applicable.                                      |
| <ul> <li>14.7 Transport in bulk according to Annex II of Ma<br/>and the IBC Code</li> </ul> | <b>rpol</b><br>Not applicable.                       |
| · Transport/Additional information:   | Not dangerous according to the above specifications. |
| · UN "Model Regulation":  | Not Reguated   |

### **SECTION 15: Regulatory information**

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

- · National regulations
- · Water hazard class: Generally not hazardous for water.
- · 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.

- · Department issuing SDS: Environmental Health and Safety.
- · Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

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

\* Data compared to the previous version altered.

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Printing date 07.08.2020 Revision: 30.07.2020

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

- · 1.1 Product identifier
- · Trade name: Reagent A Denaturing Solution
- · Article number: 5144B
- · 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 Laboratory chemicals
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Bio-Rad Laboratories Ltd.

The Junction

Station Road

Watford

Hertfordshire

WD17 1ET e:mail contact: techsupport.uk@bio-rad.com

phone: +44 00 800 00 246 723 fax: +44 01 923 47 1340

- c.maii contact. teensapport.ak @bio raa.com
- · Information department: techsupport.uk@bio-rad.com
- · 1.4 Emergency telephone number: 020-8328-2000

#### SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

Acute Tox. 2 H330 Fatal if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

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





GHS05 GHS06

- · Signal word Danger
- · Hazard-determining components of labelling:

Sodium N-lauroylsarcosinate

Poly(oxy-1,2-ethanediyl), .alpha.-[4-(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-

· Hazard statements

H330 Fatal if inhaled.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

(Contd. on page 2)





Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Reagent A - Denaturing Solution

(Contd. of page 1)

#### · Precautionary statements

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

to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor. P320 Specific treatment is urgent (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

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

- · 2.3 Other hazards
- Results of PBT and vPvB assessment
- · **PBT:** Not applicable. · vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

| · Dangerous components:                |   |        |
|--|---|--------|
| CAS: 9002-93-1<br>EC number: 618-344-0 | Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-<br>Eye Dam. 1, H318<br>Aquatic Chronic 2, H411<br>Acute Tox. 4, H302; Skin Irrit. 2, H315 | 5-<10% |
| CAS: 137-16-6                          | Sodium N-lauroylsarcosinate Acute Tox. 1, H330 Eye Dam. 1, H318 Skin Irrit. 2, H315   | 5-<10% |
| · SVHC                                 |   |        |

9002-93-1 Poly(oxy-1,2-ethanediyl), .alpha.-[4-(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-

· 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

Immediately remove any clothing soiled by the product.

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

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

· After inhalation

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact

Generally the product does not irritate the skin.

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

- · After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing Rinse mouth with water. Seek medical attention and appropriate follow-up.

(Contd. on page 3)



Page 3/9

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Reagent A - Denaturing Solution

(Contd. of page 2)

- · 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 fighting measures that suit the environment.
- · 5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- 5.3 Advice for firefighters
- · Protective equipment:

Mount respiratory protective device.

Wear self-contained respiratory protective device.

#### SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.

· 6.2 Environmental precautions:

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

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

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).

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

6.4 Reference to other sections

No dangerous substances are released.

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.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· Information about protection against explosions and fires: Keep respiratory protective device available.

(Contd. on page 4)



Page 4/9

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Reagent A - Denaturing Solution

(Contd. of page 3)

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · 7.3 Specific end use(s) No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · 8.1 Control parameters
- Components with limit values that require monitoring at the workplace:

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

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

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the skin.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Not necessary if room is well-ventilated.

- · Protection of hands: Protective gloves.
- · Material of gloves Synthetic gloves
- Penetration time of glove material

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

· Eye protection:

Safety glasses

Tightly sealed goggles.

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

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Fluid
Colour: Colourless
Odour: Odourless

(Contd. on page 5)





Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Reagent A - Denaturing Solution

|   | (Contd. of pag   |
|---|--|
| Odour threshold:  | Not determined.  |
| pH-value at 20 °C:  | 7  |
| Change in condition<br>Melting point/freezing point:<br>Initial boiling point and boiling range | undetermined<br>: undetermined                                 |
| Flash point:  | Not applicable<br>Not determined.                              |
| Flammability (solid, gaseous)   | Not applicable.  |
| Decomposition temperature:  | Not determined.  |
| Self igniting:  | Product is not selfigniting.                                   |
| Explosive properties:   | Not determined.  |
| Explosion limits:<br>Lower:<br>Upper:   | Not determined.<br>Not determined.                             |
| Vapour pressure at 20 °C:   | 23 hPa   |
| Density:<br>Relative density<br>Vapour density<br>Evaporation rate                              | Not determined Not determined. Not determined. Not determined. |
| Solubility in / Miscibility with<br>Water:  | Fully miscible   |
| Partition coefficient: n-octanol/water:   | Not determined.  |
| Viscosity:<br>dynamic:<br>kinematic:  | Not determined.<br>Not determined.                             |
| Solvent content:<br>Water:  | 73.4 %   |
| Solids content:<br>9.2 Other information  | 26.2 %<br>No further relevant information available.           |

# 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.

(Contd. on page 6)





Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Reagent A - Denaturing Solution

(Contd. of page 5)

10.6 Hazardous decomposition products: No dangerous decomposition products known

## **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity

Fatal if inhaled.

| r atar ii ii ii | iaica.  |                    |  |  |
|-----------------|---|--------------------|--|--|
| · LD/LC50       | · LD/LC50 values that are relevant for classification:                                      |                    |  |  |
| 57-13-6 u       | 57-13-6 urea  |                    |  |  |
| Oral            | LD50  | 14,500 mg/kg (rat) |  |  |
| 9002-93-1       | 9002-93-1 Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy- |                    |  |  |
| Oral            | Oral LD50 5,900 mg/kg (rat)   |                    |  |  |
| 137-16-6        | 137-16-6 Sodium N-lauroylsarcosinate  |                    |  |  |
| Inhalative      | Inhalative LC50/4 h 0.05-0.5 mg/l (Rat)   |                    |  |  |

- · Primary irritant effect:
- · Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye damage.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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.

#### **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.
- Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · 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.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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

Harmful to aquatic organisms

(Contd. on page 7)



Page 7/9

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Reagent A - Denaturing Solution

(Contd. of page 6)

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

# **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose of waste in accordance to applicable national, regional, or local regulations.

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

| ECTION 14: Transport information             |  |
|--|--|
| 14.1 UN-Number                               |  |
| ADR, ADN, IMDG, IATA                         | Not Reguated   |
| 14.2 UN proper shipping name                 |  |
| ADR  | Not Reguated   |
|  | Not Reguated   |
| ADN, IMDG, IATA                              | Not Reguated   |
| 14.3 Transport hazard class(es)              |  |
| ADR, ADN, IMDG, IATA                         |  |
| Class  | Not Reguated   |
| 14.4 Packing group                           |  |
| ADR, IMDG, IATA                              | Not Reguated   |
| 14.5 Environmental hazards:                  |  |
| Marine pollutant:                            | No   |
| 14.6 Special precautions for user            | Not applicable.                                      |
| 14.7 Transport in bulk according to Annex li | of Marpol  |
| and the IBC Code                             | Not applicable.                                      |
| Transport/Additional information:            | Not dangerous according to the above specifications. |
| UN "Model Regulation":                       | Not Reguated   |

(Contd. on page 8)



Page 8/9

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Reagent A - Denaturing Solution

(Contd. of page 7)

## **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category H2 ACUTE TOXIC
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

9002-93-1 Poly(oxy-1,2-ethanediyl), .alpha.-[4-(1,1,3,3-tetramethylbutyl)phenyl]-.omega.- Sunset date: 2021-01-04 hydroxy-

- · 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.

- · National regulations
- · Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57

9002-93-1 Poly(oxy-1,2-ethanediyl), .alpha.-[4-(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-

· 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.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H411 Toxic to aquatic life with long lasting effects.

- · Department issuing SDS: Environmental Health and Safety.
- · Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

(Contd. on page 9)



Page 9/9

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.08.2020 Revision: 30.07.2020

#### Trade name: Reagent A - Denaturing Solution

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 SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity - oral - Category 4 Acute Tox. 4: Acute toxicity - orial – Category 4

Acute Tox. 1: Acute toxicity - inhalation – Category 1

Acute Tox. 2: Acute toxicity - inhalation – Category 2

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

· \* Data compared to the previous version altered.

(Contd. of page 8)





Printing date 07.08.2020 Revision: 30.07.2020

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

- · 1.1 Product identifier
- · Trade name: Reagent B Clarifying Solution
- · Article number: 1641
- · 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 Laboratory chemicals
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Bio-Rad Laboratories Ltd.

The Junction Station Road

Watford Hertfordshire

WD17 1ET e:mail contact: techsupport.uk@bio-rad.com

phone: +44 00 800 00 246 723 fax: +44 01 923 47 1340

- · Information department: techsupport.uk@bio-rad.com
- · 1.4 Emergency telephone number: 020-8328-2000

#### SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour.

Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

- · 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







GHS02 GHS05 GHS07

- · Signal word Danger
- · Hazard-determining components of labelling:

butan-1-ol

· Hazard statements

H226 Flammable liquid and vapour.

H302 Harmful if swallowed. H315 Causes skin irritation.

H318 Causes serious eye damage.

(Contd. on page 2)





Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Reagent B - Clarifying Solution

(Contd. of page 1)

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

· Precautionary statements

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.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

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

· 2.3 Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description:

71-36-3 butan-1-ol

- · Identification number(s):
- · EC number: 200-751-6
- · Index number: 603-004-00-6
- · 3.2 Chemical characterisation: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

| <ul> <li>Dangerous</li> </ul> | components: |
|-------------------------------|-------------|
|-------------------------------|-------------|

| CAS: 71-36-3      | butan-1-ol | Flam. Lig. 3, H226  | 50-100% |
|-------------------|------------|---|---------|
| EINECS: 200-751-6 |            | Eye Dam. 1, H318  |         |
|                   |            | Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336 |         |

<sup>·</sup> 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

Immediately remove any clothing soiled by the product.

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

- · After inhalation Supply fresh air; consult doctor in case of complaints.
- · After skin contact

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

- · After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing

Call for a doctor immediately.

Rinse mouth with water. Seek medical attention and appropriate follow-up.

(Contd. on page 3)



Page 3/9

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Reagent B - Clarifying Solution

(Contd. of page 2)

- · 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

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents Water with full jet.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

### SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.

6.2 Environmental precautions:

Prevent seepage into sewage system, workpits and cellars.

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).

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

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 protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 7.2 Conditions for safe storage, including any incompatibilities
- Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.

(Contd. on page 4)





Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Reagent B - Clarifying Solution

(Contd. of page 3)

• 7.3 Specific end use(s) No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · 8.1 Control parameters
- · Components with limit values that require monitoring at the workplace:

#### 71-36-3 butan-1-ol

WEL Short-term value: 154 mg/m³, 50 ppm

Sk

- · Additional information: The lists that were valid during the creation were used as basis.
- · 8.2 Exposure controls
- · 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 skin.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

- · Breathing equipment: Not necessary if room is well-ventilated.
- · Protection of hands: Protective gloves.
- · Material of gloves Synthetic gloves
- Penetration time of glove material

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

• Eye protection:

Safety glasses

Tightly sealed goggles.

### SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Fluid
Colour: Colourless
Odour: Alcohol-like
Odour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/freezing point: -89 °C Initial boiling point and boiling range: 116 °C

(Contd. on page 5)





Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Reagent B - Clarifying Solution

|   | (Contd. of page 4  |
|---|--|
| Flash point:                            | 23 - 60 °C   |
| Flammability (solid, gaseous)           | Not applicable.  |
| Ignition temperature:                   | 340 °C   |
| Decomposition temperature:              | Not determined.  |
| Self igniting:                          | Product is not selfigniting.   |
| Explosive properties:                   | Product is not explosive. However, formation of explosive air/vapour mixture are possible. |
| Explosion limits:                       |  |
| Lower:                                  | 1.5 Vol %  |
| Upper:                                  | 9.4 Vol %  |
| Vapour pressure at 20 °C:               | 6.7 hPa  |
| Density at 20 °C:                       | 0.81003 g/cm³  |
| Relative density                        | Not determined.  |
| Vapour density                          | Not determined.  |
| Evaporation rate                        | Not determined.  |
| Solubility in / Miscibility with        |  |
| Water at 20 °C:                         | 77 g/l   |
| Partition coefficient: n-octanol/water: | Not determined.  |
| Viscosity:                              |  |
| dynamic:                                | Not determined.  |
| kinematic:                              | Not determined.  |
| Solvent content:                        |  |
| Organic solvents:                       | 100.0 %  |
| 9.2 Other information                   | No further relevant information available.   |

# **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

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Page 6/9

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Reagent B - Clarifying Solution

(Contd. of page 5)

## **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity

Harmful if swallowed.

· LD/LC50 values that are relevant for classification:

#### 71-36-3 butan-1-ol

| Oral       | LD50     | 790 mg/kg (rat)   |
|------------|----------|-------------------|
|            | LD50     | 3,400 mg/kg (rbt) |
| Inhalative | LC50/4 h | 8,000 mg/l (rat)  |

- · Primary irritant effect:
- · Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye damage.

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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

May cause respiratory irritation. May cause drowsiness or dizziness.

- · 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.

### **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.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised.

· 12.5 Results of PBT and vPvB assessment

- · PBT: Not applicable.
- · **vPvB**: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

(Contd. on page 7)





Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Reagent B - Clarifying Solution

(Contd. of page 6)

# **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose of waste in accordance to applicable national, regional, or local regulations.

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

| 14.1 UN-Number                                     |   |
|--|---|
| ADR, IMDG, IATA                                    | UN1120  |
| 14.2 UN proper shipping name                       |   |
| ADR  | 1120 BUTANOLS mixture                             |
|  | 1120 BUTANOLS, mixture                            |
| IMDG, IATA   | BUTANOLS mixture                                  |
| 14.3 Transport hazard class(es)                    |   |
| ADR, IMDG, IATA                                    |   |
| Class  | 3 Flammable liquids.                              |
| Label  | 3   |
| 14.4 Packing group                                 |   |
| ADR, IMDG, IATA                                    | III   |
| 14.5 Environmental hazards:                        |   |
| Marine pollutant:                                  | No  |
| 14.6 Special precautions for user                  | Warning: Flammable liquids.                       |
| Hazard identification number (Kemler code):        | 30  |
| EMS Number:  | F-E,S-D   |
| Stowage Category                                   | Α   |
| 14.7 Transport in bulk according to Annex II of Ma | arpol   |
| and the IBC Code                                   | Not applicable.                                   |
| Transport/Additional information:                  |   |
| ADR  |   |
| Limited quantities (LQ)                            | 5L  |
| Excepted quantities (EQ)                           | Code: E1  |
|  | Maximum net quantity per inner packaging: 30 ml   |
| _  | Maximum net quantity per outer packaging: 1000 ml |
| Transport category Tunnel restriction code         | 3<br>D/E  |

(Contd. on page 8)



Page 8/9

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.08.2020 Revision: 30.07.2020

5L

Trade name: Reagent B - Clarifying Solution

(Contd. of page 7)

· IMDG

· Limited quantities (LQ)

• Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· UN "Model Regulation": UN 1120 BUTANOLS MIXTURE, 3, III

## SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- · 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.

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

| Class | Share in % |
|-------|------------|
| NK    | 50-100     |

- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · 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

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

- · Department issuing SDS: Environmental Health and Safety.
- · Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

(Contd. on page 9)



Page 9/9

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Reagent B - Clarifying Solution

(Contd. of page 8)

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

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 Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity - oral – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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

GB





Printing date 07.08.2020 Revision: 30.07.2020

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

- · 1.1 Product identifier
- · Trade name: Reagent C1 Resolving Solution
- · Article number: 5144D
- · 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 Laboratory chemicals
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Bio-Rad Laboratories Ltd.

The Junction

Station Road

Watford

Hertfordshire

WD17 1ET

phone: +44 00 800 00 246 723 fax: +44 01 923 47 1340

e:mail contact: techsupport.uk@bio-rad.com

- · Information department: techsupport.uk@bio-rad.com
- · 1.4 Emergency telephone number: 020-8328-2000

#### SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H332 Harmful if inhaled.

- · 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



GHS07

- · Signal word Warning
- · Hazard-determining components of labelling:

Sodium N-lauroylsarcosinate

· Hazard statements

H332 Harmful if inhaled.

· Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.

(Contd. on page 2)





Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Reagent C1 - Resolving Solution

· **vPvB:** Not applicable.

(Contd. of page 1)

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

- · 3.2 Chemical characterisation: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components:

137-16-6 Sodium N-lauroylsarcosinate

Acute Tox. 1, H330

0.1-<1%

Eye Dam. 1, H318 Skin Irrit. 2, H315

· 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

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

· After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact Generally the product does not irritate the skin.
- · After eye contact Rinse opened eye for several minutes under running water.
- · After swallowing Rinse mouth with water. Seek medical attention and appropriate follow-up.
- · 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 fighting measures that suit the environment.
- · 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: Mount respiratory protective device.

#### SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- 6.2 Environmental precautions:

Dilute with plenty of water.

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.

(Contd. on page 3)

Page 3/7

## Safety data sheet according to 1907/2006/EC. Article 31

Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Reagent C1 - Resolving Solution

(Contd. of page 2)

#### · 6.4 Reference to other sections

No dangerous substances are released.

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.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- Information about protection against explosions and fires: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · 7.3 Specific end use(s) No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · 8.1 Control parameters
- · Components with limit values that require monitoring at the workplace:

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

- · Additional information: The lists that were valid during the creation were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures Wash hands before breaks and at the end of work.
- · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Not necessary if room is well-ventilated.

- · Protection of hands: Protective gloves.
- · Material of gloves Synthetic gloves
- Penetration time of glove material

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

· Eye protection: Safety glasses

(Contd. on page 4)





Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Reagent C1 - Resolving Solution

(Contd. of page 3)

| 9.1 Information on basic physical and   | chemical properties                        |
|---|--|
| General Information                     |  |
| Appearance:                             | Fluid                                      |
| Form:<br>Colour:                        | Fluid<br>Green                             |
| Odour:                                  | Odourless                                  |
| Odour threshold:                        | Not determined.                            |
| рН-value at 20 °С:                      | 7  |
| Change in condition                     |  |
| Melting point/freezing point:           | undetermined                               |
| Initial boiling point and boiling range | e: undetermined                            |
| Flash point:                            | Not applicable                             |
| •                                       | Not determined.                            |
| Flammability (solid, gaseous)           | Not applicable.                            |
| Decomposition temperature:              | Not determined.                            |
| Self igniting:                          | Product is not selfigniting.               |
| Explosive properties:                   | Not determined.                            |
| Explosion limits:                       |  |
| Lower:                                  | Not determined.                            |
| Upper:                                  | Not determined.                            |
| Vapour pressure at 20 °C:               | 23 hPa                                     |
| Density:                                | Not determined                             |
| Relative density                        | Not determined.                            |
| Vapour density                          | Not determined.                            |
| Evaporation rate                        | Not determined.                            |
| Solubility in / Miscibility with        |  |
| Water:                                  | Fully miscible                             |
| Partition coefficient: n-octanol/water: | Not determined.                            |
| Viscosity:                              |  |
| dynamic:                                | Not determined.                            |
| kinematic:                              | Not determined.                            |
| Solvent content:                        |  |
| Water:                                  | 73.2 %                                     |
| Solids content:                         | 26.8 %                                     |
| 9.2 Other information                   | No further relevant information available. |



Page 5/7

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Reagent C1 - Resolving 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
- · 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 toxicological effects
- · Acute toxicity

Harmful if inhaled.

· LD/LC50 values that are relevant for classification:

#### 57-13-6 urea

Oral LD50 14,500 mg/kg (rat)

- · Primary irritant effect:
- · 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.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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.

### **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.
- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

(Contd. on page 6)





Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Reagent C1 - Resolving Solution

(Contd. of page 5)

• 12.6 Other adverse effects No further relevant information available.

# **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose of waste in accordance to applicable national, regional, or local regulations.

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

| 14.1 UN-Number<br>ADR, ADN, IMDG, IATA       | Not Reguated   |  |
|--|--|--|
| 14.2 UN proper shipping name                 |  |  |
| ADR  | Not Reguated   |  |
|  | Not Reguated   |  |
| ADN, IMDG, IATA                              | Not Reguated   |  |
| 14.3 Transport hazard class(es)              |  |  |
| ADR, ADN, IMDG, IATA                         |  |  |
| Class  | Not Reguated   |  |
| 14.4 Packing group                           |  |  |
| ADR, IMDG, IATA                              | Not Reguated   |  |
| 14.5 Environmental hazards:                  |  |  |
| Marine pollutant:                            | No   |  |
| 14.6 Special precautions for user            | Not applicable.                                      |  |
| 14.7 Transport in bulk according to Annex li | l of Marpol  |  |
| and the IBC Code                             | Not applicable.                                      |  |
| Transport/Additional information:            | Not dangerous according to the above specifications. |  |
| UN "Model Regulation":                       | Not Reguated   |  |

### **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.

(Contd. on page 7)





Printing date 07.08.2020 Revision: 30.07.2020

Trade name: Reagent C1 - Resolving Solution

(Contd. of page 6)

- · 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.

- · National regulations
- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · 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

H315 Causes skin irritation.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

- · Department issuing SDS: Environmental Health and Safety.
- · Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000

· Abbreviations and acronvms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

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. 1: Acute toxicity - inhalation - Category 1

Acute Tox. 4: Acute toxicity - inhalation - Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

· \* Data compared to the previous version altered.

GB





Printing date 07.08.2020 Revision: 30.07.2020

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

- · 1.1 Product identifier
- · Trade name: BSE Proteinase K
- · Article number: 3551100
- · 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 Laboratory chemicals
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Bio-Rad Laboratories Ltd.

The Junction Station Road

Watford

Hertfordshire

WD17 1ET phone: +44 00 800 00 246 723 fax: +44 01 923 47 1340

e:mail contact: techsupport.uk@bio-rad.com

- · Information department: techsupport.uk@bio-rad.com
- · 1.4 Emergency telephone number: 020-8328-2000

#### 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 Not Applicable
- · Hazard pictograms Not Applicable
- · Signal word Not Applicable
- · Hazard statements Not Applicable
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

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

- · 3.2 Chemical characterisation: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

| · Dangerous components: |  |        |
|-------------------------|--|--------|
| CAS: 56-81-5            | glycerol   | 1-2.5% |
| EINECS: 200-289-5       | substance with a Community workplace exposure limit      |        |
| CAS: 39450-01-6         | Proteinase, Tritirachium album serine                    | 1-2.5% |
| EINECS: 254-457-8       | Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 |        |

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

Page 2/7

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.08.2020 Revision: 30.07.2020

Trade name: BSE Proteinase K

(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 Generally the product does not irritate the skin.
- · After eye contact Rinse opened eye for several minutes under running water.
- · 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 fighting measures that suit the environment.
- · 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

#### 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

No dangerous substances are released.

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 protection against explosions and fires: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · 7.3 Specific end use(s) No further relevant information available.

GB





Printing date 07.08.2020 Revision: 30.07.2020

Trade name: BSE Proteinase K

(Contd. of page 2)

# SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · 8.1 Control parameters
- · Components with limit values that require monitoring at the workplace:

56-81-5 glycerol

WEL Long-term value: 10 mg/m³

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

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

- · Breathing equipment: Not required.
- · Protection of hands: Protective gloves.
- · Material of gloves Synthetic gloves
- · Penetration time of glove material

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

· Eye protection: Safety glasses

· Decomposition temperature:

· Explosive properties:

· Explosion limits: Lower:

· Self igniting:

| <ul> <li>9.1 Information on basic physical and</li> <li>General Information</li> <li>Appearance:</li> </ul>                     | chemical properties               |
|---|-----------------------------------|
| Form:   | Fluid                             |
| Colour:   | Colourless                        |
| · Odour:  | Odourless                         |
| · Odour threshold:  | Not determined.                   |
| · pH-value at 20 °C:  | 7                                 |
| <ul> <li>Change in condition</li> <li>Melting point/freezing point:</li> <li>Initial boiling point and boiling range</li> </ul> | undetermined<br>:: undetermined   |
| · Flash point:  | Not applicable<br>Not determined. |
| · Flammability (solid, gaseous)   | Not applicable.                   |

Not determined.

Not determined.

Not determined.

Product is not selfigniting.

(Contd. on page 4)





Printing date 07.08.2020 Revision: 30.07.2020

Trade name: BSE Proteinase K

|   | (Contd                                     | l. of page 3) |
|---|--|---------------|
| Upper:                                    | Not determined.                            |               |
| · Vapour pressure at 20 °C:               | 23 hPa                                     |               |
| · Density:                                | Not determined                             |               |
| Relative density                          | Not determined.                            |               |
| · Vapour density                          | Not determined.                            |               |
| · Evaporation rate                        | Not determined.                            |               |
| · Solubility in / Miscibility with        |  |               |
| Water:                                    | Fully miscible                             |               |
| · Partition coefficient: n-octanol/water: | Not determined.                            |               |
| · Viscosity:                              |  |               |
| dynamic:                                  | Not determined.                            |               |
| kinematic:                                | Not determined.                            |               |
| · Solvent content:                        |  |               |
| Organic solvents:                         | 2.4 %                                      |               |
| Water:                                    | 95.0 %                                     |               |
| Solids content:                           | 2.7 %                                      |               |
| · 9.2 Other information                   | No further relevant information available. |               |

### 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 toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- · 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.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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.

(Contd. on page 5)





Printing date 07.08.2020 Revision: 30.07.2020

Trade name: BSE Proteinase K

(Contd. of page 4)

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

# **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.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

## SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose of waste in accordance to applicable national, regional, or local regulations.

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

| SECTION 14: Transport information                            |  |                    |
|--|--|--------------------|
| · 14.1 UN-Number<br>· ADR, ADN, IMDG, IATA                   | Not Reguated                                 |                    |
| · 14.2 UN proper shipping name<br>· ADR<br>· ADN, IMDG, IATA | Not Reguated<br>Not Reguated<br>Not Reguated |                    |
| · 14.3 Transport hazard class(es)                            |  |                    |
| · ADR, ADN, IMDG, IATA<br>· Class                            | Not Reguated                                 |                    |
| · 14.4 Packing group<br>· ADR, IMDG, IATA                    | Not Reguated                                 |                    |
| · 14.5 Environmental hazards:<br>· Marine pollutant:         | No   |                    |
|  |  | (Contd. on page 6) |



Page 6/7

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.08.2020 Revision: 30.07.2020

Trade name: BSE Proteinase K

|   | (Contd. of page 5)                                   |
|---|--|
| · 14.6 Special precautions for user   | Not applicable.                                      |
| <ul> <li>14.7 Transport in bulk according to Annex II of Marpol<br/>and the IBC Code</li> </ul> | Not applicable.                                      |
| · Transport/Additional information:   | Not dangerous according to the above specifications. |
| · UN "Model Regulation":  | Not Reguated   |

### **SECTION 15: Regulatory information**

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

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

| Class | Share in % |
|-------|------------|
| 1     | 1-2.5      |
| NK    | 1-2.5      |

- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · 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

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

- · Department issuing SDS: Environmental Health and Safety.
- · Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

(Contd. on page 7)



Page 7/7

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.08.2020 Revision: 30.07.2020

Trade name: BSE Proteinase K

(Contd. of page 6)

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

Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

\* Data compared to the previous version altered.