

# SAFETY DATA SHEET

Protein Extraction Buffer - Diluent

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

### 1.1 Product identifier

Protein Extraction Buffer - Diluent

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

For research use only - Chemical analysis

For use in Denator kit

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

Denator AB

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SE-413 46 Göteborg

SWEDEN

Phone +46 (0)31 412 890

[inform@denator.com](mailto:inform@denator.com)

[www.denator.com](http://www.denator.com)

### 1.4 Emergency telephone number

+46 (0)31 412 890 (office hours)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

*EU Directive 1999/45/EG*

Not classified

*EU Regulation 1272/2008*

Not classified

See section 16 for explanations to hazard codes, risk phrases and hazard statements

### 2.2 Label elements

*EU Directive 1999/45/EG*

No hazard label. The product is not classified hazardous according to EU Directive 1999/45/EG or EU Regulation 1272/2008.

The label on the packaging of the preparations must bear the following inscription:

**"Safety data sheet available for professional user on request"**

### 2.3 Other hazards

May be irritating to eyes and skin.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

CAS no / EG no	Compound	Classification <sup>1</sup>	%
		67/548/EEG 1272/2008	
75621-03-3 / -	CHAPS	Xn, R22; Xi, R36/38 Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Irrit. 2, H315	4

Other components  
Tris-base

1) See section 16 for explanations to hazard codes, risk phrases and hazard statements

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### *Inhalation*

Fresh air.

Give artificial respiration if needed. Contact a physician.

#### *Skin contact*

Wash the skin with soap and water.

#### *Eye contact*

Rinse the eyes with water for at least 5 minutes.

#### *Ingestion*

Rinse out mouth with water. Contact a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

#### *Skin contact*

Repeated exposure may cause irritation.

#### *Eye contact*

Exposure may cause a slight eye irritation.

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

The product is not flammable.

Use suitable extinguishing media dependent on what is on fire in the vicinity.

### 5.2 Special hazards arising from the substance or mixture

Toxic fumes of carbon-, nitrogen- and sulphur oxides may be formed during combustion.

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting, if necessary.

## SECTION 6: Accidental release measure

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Use suitable gloves and safety goggles if needed.

### 6.2 Environmental precautions

Do not let the product enter the sewer.

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

Pick up larger spills and put in a container and hand over to waste management.

Clean the area with a wet cloth.

### 6.4 Reference to other sections

See section 8 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Wash hands after use.

Avoid contact with skin and eyes.

Do not eat or drink when using the product.

Handle in accordance with good industrial hygiene and safety practice.

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

Store in +4 to + 8 °C.

Keep container closed.

### 7.3 Specific end use(s)

For research use only - Chemical analysis.

See instructions from the manufacturer.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

National limit values in Sweden (AFS 2005:17)

No limit values.

### 8.2 Exposure controls

Adequate ventilation.

#### *Personal protection*

Use protective gloves.

Use safety goggles if there is a risk of eye exposure.

Access to eye wash.

#### *Environmental exposure controls*

Avoid release into sewer.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance liquid

Odour none

Colour transparent

pH (20°C) 10-10,5

Boiling point no information

Flash point no information

Vapour pressure (20°C) no information

### 9.2 Other information

No information.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not liable to react during normal conditions.

### 10.2 Chemical stability

Stable during normal conditions.

### 10.3 Possibility of hazardous reactions

No known.

### 10.4 Conditions to avoid

No known.

10.5 Incompatible materials  
Bases, acids and oxidizing agents.

10.6 Hazardous decomposition products  
No known.

## SECTION 11: Toxicological information

11.1 Information on toxicological effects

*Compounds*

No information.

*Mixtures*

The product has not been tested.

Repeated and prolonged exposure could give a slight irritation on the skin.

Likely routes of exposure – skin and eyes.

## SECTION 12: Ecological information

12.1 Toxicity

No information.

12.2 Persistence and degradability

No information.

12.3 Bioaccumulative potential

No information.

12.4 Mobility in soil

No information.

12.5 Results of PBT and vPvB assessment

No information.

12.6 Other adverse effects

No known.

## SECTION 13: Disposal considerations

Discarded product is not classified as hazardous waste according to EU Directive 2008/98/EC.

13.1 Waste treatment methods

Contact the local waste management before discarding the product.

See additional regulations in EU Directive 2008/98/EC.

## SECTION 14: Transport information

The product is not classified Dangerous goods according to ADR.

14.1 UN number

Not relevant.

14.2 UN proper shipping name

Not relevant.

14.3 Transport hazard class(es)

Not relevant.

14.4 Packing group

Not relevant.

14.5 Environmental hazards  
Not relevant.

14.6 Special precautions for user  
No information.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Not relevant.

## SECTION 15: Regulatory information

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

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances.

DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations

AFS 2005:17 - Hygieniska gränsvärden och åtgärder mot luftföroreningar – *Occupational limit values in Sweden*.

DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives

ADR – European Agreement Concerning the International Carriage of Dangerous goods by Road.

15.2 Chemical safety assessment  
No Chemical Safety Report is available for the product.

## SECTION 16: Other information

### References

Data from the manufacturer

Chemical Substances – database on the Internet [http://kemi.prevent.se/default\\_eng.asp](http://kemi.prevent.se/default_eng.asp)

### Explanations to hazard codes, risk phrases and hazard statements

Xn	Harmful
R22	Harmful if swallowed
Xi	Irritating
R36/38	Irritating to eyes and skin
Acute Tox. 4	Acute toxicity, hazard category 4
H302	Harmful if swallowed
Eye Irrit. 2	Serious eye damage/eye irritation, hazard category 2
H319	Causes serious eye irritation
Skin Irrit. 2	Skin corrosion/irritation, hazard category 2
H315	Causes skin irritation

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