



## SAFETY DATA SHEET ENZYME PROTEIN SOLID

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

#### 1.1. Product identifier

Product name ENZYME PROTEIN SOLID  
Product number 11414  
Synonyms; trade names NOVOBATE WB, SHAPEIT BISCUIT, NEUTRASE 5.0 BG

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

Identified uses Enzyme Biocatalyst Food industry

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

Supplier Univar Solutions UK Ltd  
Aquarius House  
6 Mid Point Business Park  
Bradford  
BD3 7AY  
+44 1274 267300  
+44 1274 267306  
SDS.EMEA@univarsolutions.com

#### 1.4. Emergency telephone number

Emergency Contact Number SGS - +32 (0)3 575 55 55 (24h)  
(Outside Office Hours)

Sds No. 11414

### SECTION 2: Hazards identification

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

##### Classification (EC 1272/2008)

Physical hazards Not Classified  
Health hazards Resp. Sens. 1 - H334  
Environmental hazards Not Classified

#### 2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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|                                 |                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precautionary statements</b> | <p>P261 Avoid breathing vapour/ spray.</p> <p>P284 [In case of inadequate ventilation] wear respiratory protection.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p> |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                 |                |
|-----------------|----------------|
| <b>Contains</b> | ENZYME PROTEIN |
|-----------------|----------------|

### 2.3. Other hazards

None.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

|                                               |                      |
|-----------------------------------------------|----------------------|
| <b>PROTEINASE, BACILLUS SUBTILIS METALLO-</b> | <b>10-30%</b>        |
| CAS number: 9080-56-2                         | EC number: 232-991-2 |
| <b>Classification</b><br>Resp. Sens. 1 - H334 |                      |

The full text for all hazard statements is displayed in Section 16.

|                             |                                                                 |
|-----------------------------|-----------------------------------------------------------------|
| <b>Composition comments</b> | The data shown are in accordance with the latest EC Directives. |
|-----------------------------|-----------------------------------------------------------------|

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                     |                                                                                                                                                                                                                           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Move affected person to fresh air at once. Get medical attention if any discomfort continues.                                                                                                                             |
| <b>Ingestion</b>    | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues. |
| <b>Skin contact</b> | Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.                                                                                            |
| <b>Eye contact</b>  | Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.                              |

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

|                     |                                                                                                                                                     |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | May cause an asthma-like shortness of breath. Upper respiratory irritation. May cause sensitisation or allergic reactions in sensitive individuals. |
| <b>Ingestion</b>    | May cause discomfort if swallowed.                                                                                                                  |
| <b>Skin contact</b> | Prolonged skin contact may cause redness and irritation.                                                                                            |
| <b>Eye contact</b>  | May cause temporary eye irritation.                                                                                                                 |

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

|                             |                                                                           |
|-----------------------------|---------------------------------------------------------------------------|
| <b>Notes for the doctor</b> | No specific recommendations. If in doubt, get medical attention promptly. |
|-----------------------------|---------------------------------------------------------------------------|

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                     |                                                                                  |
|-------------------------------------|----------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b> | Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. |
|-------------------------------------|----------------------------------------------------------------------------------|

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

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|                                                      |                                                                                                                    |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Specific hazards</b>                              | Oxides of the following substances: Carbon.                                                                        |
| <b>Hazardous combustion products</b>                 | Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. |
| <b><u>5.3. Advice for firefighters</u></b>           |                                                                                                                    |
| <b>Protective actions during firefighting</b>        | Contain and collect extinguishing water.                                                                           |
| <b>Special protective equipment for firefighters</b> | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.              |

### SECTION 6: Accidental release measures

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

|                             |                                                                                                                                                                     |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions</b> | Follow precautions for safe handling described in this safety data sheet. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of dust. |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### **6.2. Environmental precautions**

|                                  |                                                                                                                                                       |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Environmental precautions</b> | Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

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

|                                |                                                                                                                                                                                                                                                                     |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Methods for cleaning up</b> | Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### **6.4. Reference to other sections**

|                                    |                                                                               |
|------------------------------------|-------------------------------------------------------------------------------|
| <b>Reference to other sections</b> | Wear protective clothing as described in Section 8 of this safety data sheet. |
|------------------------------------|-------------------------------------------------------------------------------|

### SECTION 7: Handling and storage

#### **7.1. Precautions for safe handling**

|                          |                                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Usage precautions</b> | Avoid spilling. Avoid contact with skin and eyes. Avoid handling which leads to dust formation. Avoid inhalation of dust. Provide adequate ventilation. |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|

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

|                            |                                                                                                                                                                |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage precautions</b> | Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store in closed original container at temperatures between 5°C and 25°C. |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### **7.3. Specific end use(s)**

|                            |                                                                   |
|----------------------------|-------------------------------------------------------------------|
| <b>Specific end use(s)</b> | The identified uses for this product are detailed in Section 1.2. |
|----------------------------|-------------------------------------------------------------------|

### SECTION 8: Exposure controls/Personal protection

#### **8.1. Control parameters**

|                            |                                             |
|----------------------------|---------------------------------------------|
| <b>Ingredient comments</b> | No exposure limits known for ingredient(s). |
|----------------------------|---------------------------------------------|

#### **8.2. Exposure controls**

##### **Protective equipment**



##### **Appropriate engineering controls**

Provide adequate ventilation. Avoid inhalation of dust. Observe any occupational exposure limits for the product or ingredients.

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|                                       |                                                                                                                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye/face protection</b>            | The following protection should be worn: Chemical splash goggles.                                                                                                                                    |
| <b>Hand protection</b>                | Use protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. |
| <b>Other skin and body protection</b> | Wear rubber apron. Wear rubber footwear.                                                                                                                                                             |
| <b>Hygiene measures</b>               | No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.                                                        |
| <b>Respiratory protection</b>         | If ventilation is inadequate, suitable respiratory protection must be worn.                                                                                                                          |

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|                         |                  |
|-------------------------|------------------|
| <b>Appearance</b>       | Granules.        |
| <b>Colour</b>           | Various colours. |
| <b>Odour</b>            | Slight.          |
| <b>Relative density</b> | 0.45 - 0.97 @ °C |

#### 9.2. Other information

|                          |                 |
|--------------------------|-----------------|
| <b>Other information</b> | Not determined. |
|--------------------------|-----------------|

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

|                   |                                                                     |
|-------------------|---------------------------------------------------------------------|
| <b>Reactivity</b> | There are no known reactivity hazards associated with this product. |
|-------------------|---------------------------------------------------------------------|

#### 10.2. Chemical stability

|                  |                                                                     |
|------------------|---------------------------------------------------------------------|
| <b>Stability</b> | Stable at normal ambient temperatures and when used as recommended. |
|------------------|---------------------------------------------------------------------|

#### 10.3. Possibility of hazardous reactions

|                                           |                 |
|-------------------------------------------|-----------------|
| <b>Possibility of hazardous reactions</b> | Not determined. |
|-------------------------------------------|-----------------|

#### 10.4. Conditions to avoid

|                            |                                                     |
|----------------------------|-----------------------------------------------------|
| <b>Conditions to avoid</b> | Avoid excessive heat for prolonged periods of time. |
|----------------------------|-----------------------------------------------------|

#### 10.5. Incompatible materials

|                           |                                                                                                                  |
|---------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Materials to avoid</b> | No specific material or group of materials is likely to react with the product to produce a hazardous situation. |
|---------------------------|------------------------------------------------------------------------------------------------------------------|

#### 10.6. Hazardous decomposition products

|                                         |                                             |
|-----------------------------------------|---------------------------------------------|
| <b>Hazardous decomposition products</b> | Oxides of the following substances: Carbon. |
|-----------------------------------------|---------------------------------------------|

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| <b>Inhalation</b>   | May cause sensitisation by inhalation.              |
| <b>Ingestion</b>    | Gastrointestinal symptoms, including upset stomach. |
| <b>Skin contact</b> | Powder may irritate skin.                           |

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**Eye contact** Particles in the eyes may cause irritation and smarting.

**Acute and chronic health hazards** May cause respiratory allergy.

### SECTION 12: Ecological information

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

#### 12.1. Toxicity

**Toxicity** Not considered toxic to fish.

#### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: mg/l, Fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: mg/l, Daphnia magna

#### 12.2. Persistence and degradability

**Persistence and degradability** The product is readily biodegradable.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.

#### 12.4. Mobility in soil

**Mobility** No information available.

#### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

#### 12.6. Other adverse effects

**Other adverse effects** Not determined.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**General information** Do not puncture or incinerate, even when empty. Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

#### 14.3. Transport hazard class(es)

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Not applicable.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78  
and the IBC Code

## SECTION 15: Regulatory information

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

|                      |                                                                                                                                                                                                                                    |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| National regulations | The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).                                                                                                                                    |
| EU legislation       | Dangerous Preparations Directive 1999/45/EC.<br>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 (as amended). |
| Guidance             | CHIP for everyone HSG228.<br>Safety Data Sheets for Substances and Preparations.<br>Approved Classification and Labelling Guide (Sixth edition) L131.                                                                              |

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

|                           |                                                                                        |
|---------------------------|----------------------------------------------------------------------------------------|
| Revision comments         | NOTE: Lines within the margin indicate significant changes from the previous revision. |
| Revision date             | 22/05/2015                                                                             |
| Version number            | 1.000                                                                                  |
| SDS number                | 11414                                                                                  |
| SDS status                | Approved.                                                                              |
| Hazard statements in full | H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.        |
| Signature                 | Jitendra Panchal                                                                       |