



## SAFETY DATA SHEET PECTINEX ULTRA PASSOVER

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

#### 1.1. Product identifier

Product name PECTINEX ULTRA PASSOVER

Product number 51010

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

Identified uses Enzyme

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

Supplier

Univar  
Aquarius House  
6 Mid Point Business Park  
Bradford  
BD3 7AY  
+44 1274 267300  
sds@univar.com  
+44 1274 267306

#### 1.4. Emergency telephone number

Emergency telephone SGS - +32 (0)3 575 55 55 (24h)

Sds No. 51010

### 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

Classification (67/548/EEC or 1999/45/EC) R42

#### 2.2. Label elements

Pictogram



Signal word Danger

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

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**Precautionary statements**

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

**Contains** POLYGALACTURONASE

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

|                          |                                                  |             |
|--------------------------|--------------------------------------------------|-------------|
| <b>POLYGALACTURONASE</b> |                                                  | <b>1-5%</b> |
| CAS number: 9032-75-1    | EC number: 232-885-6                             |             |
| <b>Classification</b>    | <b>Classification (67/548/EEC or 1999/45/EC)</b> |             |
| Resp. Sens. 1 - H334     | R42.                                             |             |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation** Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.

**Ingestion** Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues.

**Skin contact** Remove contaminated clothing. Remove affected person from source of contamination. Rinse immediately with plenty of water. Get medical attention if any discomfort continues.

**Eye contact** 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

**Inhalation** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause coughing and difficulties in breathing. Effects may be delayed.

**Ingestion** May cause irritation.

**Skin contact** May be slightly irritating to skin.

**Eye contact** May be slightly irritating to eyes.

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

**Notes for the doctor** Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards** May cause respiratory allergy.

### 5.3. Advice for firefighters

**Special protective equipment for firefighters** 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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Do not allow to dry out. Avoid generation and spreading of dust. Avoid inhalation of dust and vapours.

### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground. 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

**Methods for cleaning up** Provide adequate ventilation. Remove spillage with vacuum cleaner or collect with a shovel and broom, or similar. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. For waste disposal, see Section 13.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see Section 13.

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

### 7.1. Precautions for safe handling

**Usage precautions** Avoid contact with skin and eyes. Avoid the formation of mists. Do not allow to dry out. Avoid generation and spreading of dust. Provide adequate ventilation.

**Advice on general occupational hygiene** Take off immediately all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet.

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

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store at temperatures between 0°C and 10°C.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

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

### 8.1. Control parameters

**Ingredient comments** No exposure limits known for ingredient(s).

### POLYGALACTURONASE (CAS: 9032-75-1)

**DNEL**

Workers - Inhalation; Long term local effects: 0.00006 mg/m<sup>3</sup>

### 8.2. Exposure controls

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### Protective equipment



### Appropriate engineering controls

Provide adequate ventilation.

### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.

### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. 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. To protect hands from chemicals, gloves should comply with European Standard EN374.

### Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination.

### Hygiene measures

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Do not eat, drink or smoke when using this product. Take off immediately all contaminated clothing and wash it before reuse. Remove contaminated clothing and protective equipment before entering eating areas.

### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Particulate filter, type P3. EN 136/140/145/143/149

## SECTION 9: Physical and Chemical Properties

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

|                                              |                                   |
|----------------------------------------------|-----------------------------------|
| Appearance                                   | Liquid.                           |
| Colour                                       | Brown.                            |
| Odour threshold                              | No information available.         |
| pH                                           | pH (concentrated solution): 4 - 9 |
| Melting point                                | No information available.         |
| Initial boiling point and range              | No information available.         |
| Flash point                                  | No information available.         |
| Evaporation rate                             | No information available.         |
| Evaporation factor                           | No information available.         |
| Flammability (solid, gas)                    | No information available.         |
| Upper/lower flammability or explosive limits | No information available.         |
| Other flammability                           | No information available.         |
| Vapour pressure                              | No information available.         |
| Vapour density                               | No information available.         |

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|                                                 |                           |
|-------------------------------------------------|---------------------------|
| <b>Relative density</b>                         | No information available. |
| <b>Bulk density</b>                             | 1150 kg/m <sup>3</sup>    |
| <b>Solubility(ies)</b>                          | Insoluble in water.       |
| <b>Auto-ignition temperature</b>                | No information available. |
| <b>Decomposition Temperature</b>                | No information available. |
| <b>Viscosity</b>                                | No information available. |
| <b>Explosive properties</b>                     | No information available. |
| <b>Explosive under the influence of a flame</b> | No information available. |
| <b>Oxidising properties</b>                     | No information available. |

### 9.2. Other information

|                          |                           |
|--------------------------|---------------------------|
| <b>Other information</b> | No information available. |
|--------------------------|---------------------------|

## 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 under the prescribed storage conditions. |
|------------------|-------------------------------------------------|

### 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> | Not determined. |
|---------------------------|-----------------|

### 10.6. Hazardous decomposition products

|                                         |                                                                                                  |
|-----------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Hazardous decomposition products</b> | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. |
|-----------------------------------------|--------------------------------------------------------------------------------------------------|

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                              |                           |
|------------------------------|---------------------------|
| <b>Toxicological effects</b> | No information available. |
|------------------------------|---------------------------|

### Skin corrosion/irritation

|                    |                           |
|--------------------|---------------------------|
| <b>Animal data</b> | No information available. |
|--------------------|---------------------------|

### Serious eye damage/irritation

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>Serious eye damage/irritation</b> | No information available. |
|--------------------------------------|---------------------------|

### Respiratory sensitisation

|                                  |                           |
|----------------------------------|---------------------------|
| <b>Respiratory sensitisation</b> | No information available. |
|----------------------------------|---------------------------|

### Skin sensitisation

|                           |                           |
|---------------------------|---------------------------|
| <b>Skin sensitisation</b> | No information available. |
|---------------------------|---------------------------|

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### Germ cell mutagenicity

**Genotoxicity - in vitro** No information available.

### Carcinogenicity

**Carcinogenicity** No information available.

### Reproductive toxicity

**Reproductive toxicity - fertility** No information available.

### Specific target organ toxicity - single exposure

**STOT - single exposure** No information available.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** No information available.

### Aspiration hazard

**Aspiration hazard** No information available.

**Inhalation** May cause allergy or asthma symptoms or breathing difficulties if inhaled. Wheezing/breathing difficulties. Effects may be delayed.

**Ingestion** May cause irritation. Gastro-intestinal tract

**Skin contact** May be slightly irritating to skin.

**Eye contact** May be slightly irritating to eyes.

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### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Oral, Rat

### Skin corrosion/irritation

**Animal data** Not irritating. Rabbit OECD 404

### Serious eye damage/irritation

**Serious eye damage/irritation** Not irritating. Rabbit

### Respiratory sensitisation

**Respiratory sensitisation** Sensitising. Human

### Germ cell mutagenicity

**Genotoxicity - in vitro** This substance has no evidence of mutagenic properties.

## SECTION 12: Ecological Information

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### 12.1. Toxicity

**Toxicity** No information available.

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|                                               |                                                                         |
|-----------------------------------------------|-------------------------------------------------------------------------|
| <b>Acute toxicity - fish</b>                  | OECD 203<br>LC <sub>50</sub> , 96 hours: 58.3 - 326.7 mg/l, Algae       |
| <b>Acute toxicity - aquatic invertebrates</b> | OECD 202<br>EC <sub>50</sub> , 48 hours: 31.5 - 457 mg/l, Daphnia magna |
| <b>Acute toxicity - aquatic plants</b>        | IC <sub>50</sub> , 72 hours: ErC50(72h): >= 5.2, OECD 201 mg/l, Fish    |

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

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|                                      |                                                |
|--------------------------------------|------------------------------------------------|
| <b>Persistence and degradability</b> | The product is readily biodegradable. OECD 301 |
|--------------------------------------|------------------------------------------------|

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No information available.

### POLYGALACTURONASE

|                                  |                                     |
|----------------------------------|-------------------------------------|
| <b>Bioaccumulative potential</b> | The product is not bioaccumulating. |
| <b>Partition coefficient</b>     | log Pow: < 0                        |

### 12.4. Mobility in soil

**Mobility** No information available.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

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

## SECTION 14: Transport information

|                |                                                                                                                    |
|----------------|--------------------------------------------------------------------------------------------------------------------|
| <b>General</b> | 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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No transport warning sign required.

### **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**

#### **EU legislation**

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) (as amended).

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).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

### **15.2. Chemical safety assessment**

No information available.

## **SECTION 16: Other information**

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### Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.  
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.  
 CAS: Chemical Abstracts Service.  
 DNEL: Derived No Effect Level.  
 IATA: International Air Transport Association.  
 IMDG: International Maritime Dangerous Goods.  
 Kow: Octanol-water partition coefficient.  
 LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.  
 LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).  
 PBT: Persistent, Bioaccumulative and Toxic substance.  
 PNEC: Predicted No Effect Concentration.  
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.  
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.  
 vPvB: Very Persistent and Very Bioaccumulative.  
 IARC: International Agency for Research on Cancer.  
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.  
 cATpE: Converted Acute Toxicity Point Estimate.  
 BCF: Bioconcentration Factor.  
 BOD: Biochemical Oxygen Demand.  
 EC<sub>50</sub>: 50% of maximal Effective Concentration.  
 LOAEC: Lowest Observed Adverse Effect Concentration.  
 LOAEL: Lowest Observed Adverse Effect Level.  
 NOAEC: No Observed Adverse Effect Concentration.  
 NOAEL: No Observed Adverse Effect Level.  
 NOEC: No Observed Effect Concentration.  
 LOEC: Lowest Observed Effect Concentration.  
 DMEL: Derived Minimal Effect Level.  
 EL50: Exposure Limit 50  
 hPa: Hectopascal  
 LL50: Lethal Loading fifty  
 OECD: Organisation for Economic Co-operation and Development  
 POW: Octanol-water partition coefficient  
 SCBA: self-contained breathing apparatus  
 STP: Sewage Treatment Plant  
 VOC: Volatile Organic Compounds

### Classification abbreviations and acronyms

Acute Tox. = Acute toxicity  
 Aquatic Acute = Hazardous to the aquatic environment (acute)  
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)

### Key literature references and sources for data

Supplier's information.

### Revision comments

This is first issue.

### Revision date

01/03/2017

### Revision

01

### SDS number

51010

### Version number

1.000

## PECTINEX ULTRA PASSOVER

|                                  |                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------|
| <b>SDS status</b>                | Approved.                                                                       |
| <b>Signature</b>                 | J Spenceley                                                                     |
| <b>Risk phrases in full</b>      | R42 May cause sensitisation by inhalation.                                      |
| <b>Hazard statements in full</b> | H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. |