



Manufactured By: Medicago AB

Pisum sativum lectin (PSA)

REVISION DATE: 2010-04-22

## MATERIAL SAFETY DATA SHEET

### Pisum sativum lectin (PSA)

#### 1. Identification of the substance/preparation and of the company/undertaking

**Product name:** Pisum sativum lectin (PSA)  
Lyophilized powder

**Chemical formula:** N/A

**Art. no.:** A05-0111

**Manufacturer:** Medicago AB  
Danmark Berga  
SE-755 98 Uppsala  
Sweden  
tel.: +46 (0) 18 56 11 80  
fax: +46 (0) 18 56 11 88

#### 2. Composition/information on ingredients

Chemical name:	CAS no.:	EC no.:	Symbol:	R-phrases:	S-Phrases:
Pisum Sativum lectin (PSA)	N/A	N/A	Xn	42/43	36

#### 3. Hazards identification

##### Physical/chemical hazards:

**H317** Can cause allergic skin reaction

**H334** Can cause allergy or asthma symptoms if inhaled.

**P261** Avoid inhalation

**P280** Use gloves

**P342 + 311** If breathing occur, contact get medical advice or call a poison centre.

#### 4. First-aid measures

**Ingestion:** Do not induce vomiting unless advised by medical personnel. In case of ingestion, immediately flush mouth with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention. Loosen tight clothing such as a collar, tie, belt or waistband.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Skin contact:** In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

**Eye contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

#### 5. Fire-fighting measures

**Flammability of the product:** May be combustible at high temperature.

**Extinguishing media:** Small fire: Use dry chemical powder. Large fire: Use water spray, fog or foam. Do not use water jet.

**Hazardous thermal**

**(de)composition products:** These products are nitrogen oxides (NO, NO<sub>2</sub>...)  
**Special fire-fighting procedures:** Wearing of breathing apparatus and full turnout gear.

## 6. Accidental release measures

**Personal precautions:** Safety goggles. Full suit. Wear suitable respiratory equipment. Boots. Gloves.  
**Spill and leak:** Use appropriate tools to put the solid in a convenient waste disposal container.  
 Clean the contaminated surface carefully and ventilate the room.

## 7. Handling and storage

**Handling:** Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk; evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust.  
**Storage:** Store at 2-8 °C in tightly closed container. Use original container. Extended stability when stored at -20 °C

## 8. Personal protection/exposure controls



**Protective clothing:**  
**Personal protective equipment:** Safety goggles, gloves, wear suitable respiratory equipment and lab coat.  
**Engineering measures:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.  
**Hygiene measures:** Wash hands after handling compounds and before eating, smoking and using lavatory.

## 9. Physical and chemical properties

**Physical state:** Lyophilized powder  
**Colour:** White to cream coloured  
**Molecular Weight:** 49 kDA  
**Solubility:** N/A  
**Flash point:** N/A  
**Explosive properties:** Risk of explosion of the product in presence of mechanical impact: N/A  
 Risk of explosion of the product in presence of static discharge: N/A

## 10. Stability and reactivity

**Stability:** Stable  
**Conditions to avoid:** N/A  
**Hazardous decomposition products:** N/A

## 11. Toxicological information

The toxicological properties are not fully investigated as far as we know. May cause allergic reactions to sensitive persons.

### Potential effects on health:

- Can cause irritation of the skin by exposure
- Inhalation can be dangerous or cause irritation in the respiratory tract.
- Can be poisonous if consumed
- Can cause irritation of the eyes.

## 12. Ecological information

<b>Ecotoxicity:</b>	N/A
<b>Toxicity of the products of biodegradation:</b>	The product itself and its products of degradation are not toxic.

## 13. Disposal considerations

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## 14. Transport information

<b>RID/ADR:</b>	Not controlled under ADR (Europe).
<b>IMDG:</b>	Non-hazardous for sea transport.
<b>IATA:</b>	Non-hazardous for air transport.
<b>Special provisions for transport:</b>	N/A

## 15. Regulatory information

### EU Regulations

<b>Classification:</b>	Hazardous.
<b>Risk Phrases:</b>	42/43 May cause sensitization by inhalation and skin contact .
<b>Safety Phrases:</b>	36 Wear suitable protective clothing.

### US Federal Regulations

<b>TSCA:</b>	No products were found.
<b>HCS Classification:</b>	Not controlled under the HCS (United States).

## 16. Other information

**Precautions and Disclaimer:** For laboratory use only. Not for drug, household or other uses.

### Notice to reader

To the best of our knowledge, the information given is accurate. However, we do not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.