



Trade name: Papainum 6000

Substance number: 066868

Version: 3 / CH

Date revised: 03.04.12

Replaces Version: 2 / CH

Date of printing: 03.04.12

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Papainum 6000

Item-No.

06686800

1.3. Details of the supplier of the safety data sheet

Address

Hänseler AG

Industriestrasse 35

9101 Herisau

Telephone no.

0041 (0)71 353 58 58

E-mail address of

sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

2. Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Eye Irrit. 2 H319

STOT SE 3 H335

Skin Irrit. 2 H315

Resp. Sens. 1 H334

Classification in accordance with EC directives

Classification

Xi, R36/37/38

Xn, R42

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal Word

Danger

Hazard statements

H319

Causes serious eye irritation.

H335

May cause respiratory irritation.

H315

Causes skin irritation.

H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements

P261

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

P285

In case of inadequate ventilation wear respiratory protection.

P342+P311

If experiencing respiratory symptoms: Call a POISON CENTER or



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P304+P341 doctor/physician.
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P337+P313 If eye irritation persists: Get medical advice/attention.

Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC

The product is classified and labelled in accordance with EC directives/the relevant national laws.

Hazard symbols

Harmful

R phrases

36/37/38 Irritating to eyes, respiratory system and skin.
42 May cause sensitization by inhalation.

S phrases

2 Keep out of the reach of children.
22 Do not breathe dust.
24 Avoid contact with skin.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37 Wear suitable protective clothing and gloves.

Hazardous component(s) to be indicated on label

contains Papain

3. Composition/information on ingredients**Substance / product identification**

EINECS-Nr.

Hazardous ingredients**Papain**

CAS No.	9001-73-4				
EINECS no.	232-627-2				
Concentration	>= 2.5	<	10		%
Classification	Xi, R36/37/38				
	R42				

Classification (Regulation (EC) No. 1272/2008)

Skin Irrit. 2	H315
Resp. Sens. 1	H334
Eye Irrit. 2	H319
STOT SE 3	H335

Further hazardous ingredients**Lactose**

CAS No.	63-42-3				
EINECS no.	200-559-2				
Concentration	>	50			%
Classification	-				



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4. First aid measures

4.1. Description of first aid measures

General information

Take off contaminated clothing and shoes immediately.

After inhalation

Ensure supply of fresh air. Seek medical advice immediately.

After skin contact

Wash off immediately with soap and water and rinse well.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical aid immediately.

After ingestion

Take medical treatment.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Dry powder, Water spray jet, Extinguish greater fire with water spray or alcohol-resistant foam.

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂)

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Not required.

6.2. Environmental precautions

No special measures required.

6.3. Methods and material for containment and cleaning up

Pick up mechanically. Ensure adequate ventilation.

6.4. Reference to other sections

Information regarding Waste Disposal, see chapter 13.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid dust formation.

Advice on protection against fire and explosion

The product is combustible.



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7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in the original container.

Hints on storage assembly

Not required.

VCI storage category

VCI storage category 11 Combustible solids

Further information on storage conditions

Keep container tightly closed. Keep container tightly closed, cool and dry.

8. Exposure controls/personal protection

8.2. Exposure controls

General protective and hygiene measures

Keep away from food-stuffs, beverages and feed-stocks. Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work. Do not inhale gases/vapours/aerosols.

Respiratory protection

Self-contained breathing apparatus.

Hand protection

Protective gloves

Appropriate Material Gloves / resistant to chemicals

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Eye protection

Tightly fitting safety glasses

Body protection

protective overalls

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Powder		
Colour	white		
Odour	odourless		
pH			
Value	4.8	to	6.2
Concentration/H ₂ O	10	g/l	
Temperature	20	°C	

Melting point

Remarks Not determined

Boiling point

Remarks Not determined

Flash point

Remarks Not applicable

Vapour pressure

Remarks Not applicable



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Solubility in water

Remarks slightly soluble

9.2. Other information**Bulk density**Value appr. 600 kg/m³**Solids content**

Value 95.0 %

10. Stability and reactivity**10.4. Conditions to avoid**

No decomposition if stored and applied as directed.

10.5. Incompatible materials

No dangerous reactions known.

10.6. Hazardous decomposition products

None known

11. Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

Reference substance	Papain	
Species	rat	
LD50	> 4000	mg/kg

Skin corrosion/irritation

method	OECD 404
Remarks	Irritating to skin.
Remarks	Irritates the mucous membrane.

Serious eye damage/irritation

valuation	irritant
method	OECD 405

Sensitization

Remarks Sensitisation possible through inhalation.

12. Ecological information**12.6. Other adverse effects****General information / ecology**

Product is highly hazardous to water. Do not allow it to reach ground water, water bodies or sewage system. Hazard for drinking water supplies.

13. Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

EWC waste code	No not dispose with rubbish.
Disposal in compliance with local and national regulations.	
EWC waste code	Should not be released into the sanitary sewer system.



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Disposal recommendations for packaging

Disposal in compliance with local and national regulations.

14. Transport information**Land transport ADR/RID**

Non-dangerous goods

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

15. Regulatory information**16. Other information****R-phrases listed in chapter 3**

36/37/38

Irritating to eyes, respiratory system and skin.

42

May cause sensitization by inhalation.

Hazard statements listed in chapter 3

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335

May cause respiratory irritation.

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.