

SAFETY DATA SHEET

TUBERMINE® GP-PROTEINE DE POMME DE TERRE

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

1.1 Product identifier:

Product name: TUBERMINE® GP-PROTEINE DE POMME DE TERRE
Chemical name: Potato protein
REACH Registration No.: Exempted
CAS-No.: 212520-82-6

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

Identified uses:	Uses advised against:
Animal Feed; Food; Industrial	No data available.

1.3 Details of the supplier of the safety data sheet:

Supplier:

ROQUETTE FRERES
1 Rue de la Haute Loge
62136 LESTREM - France

Telephone: +33 3 21 63 36 00**Fax:** +33 3 21 63 38 50**e-mail:** sds@roquette.com

1.4 Emergency telephone number: ORFILA (INRS) : + 33 (0)1 45 42 59 59

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

The product has not been classified as dangerous according to the legislation in force.

2.2 Label elements:

Not applicable

2.3 Other hazards:

Dust may form an explosive mixture in the atmosphere.

SECTION 3: Composition/information on ingredients

3.1 Substance:

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.
Potato protein	>=91%	212520-82-6	Polymer	Exempted

SECTION 4: First aid measures

4.1 Description of first aid measures:

Inhalation: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Eye contact: Flush thoroughly with water. If irritation occurs, get medical assistance.

Skin contact: Wash with soap and water.

Ingestion: Get medical attention if symptoms occur.

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

Dust may irritate the eyes and the respiratory system.

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

Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Water spray.

Unsuitable extinguishing media: Dry chemicals or foams.

5.2 Special hazards arising from the substance or mixture: Fire or excessive heat may produce hazardous decomposition products. Dust may form an explosive mixture in the atmosphere. See Section 10.

5.3 Advice for firefighters:

Special Fire Fighting Procedures: Prevent dust cloud.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: See Section 8 of the SDS for Personal Protective Equipment.

6.2 Environmental precautions: Avoid release to the environment.

6.3 Methods and material for containment and cleaning up: Remove material, as much as possible, using mechanical equipment. Prevent dust cloud. Collect and dispose of spillage as indicated in section 13 of the SDS.

6.4 Reference to other sections: For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1 Precautions for safe handling: No data available.

7.2 Conditions for safe storage, including any incompatibilities: Store in cool, dry place.

7.3 Specific end use(s): Animal Feed; Food; Industrial

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Occupational exposure limits:

France. Code du travail, Article R 4222-10, non specific total dusts : AEL $\leq 10 \text{ mg/m}^3$
respirable dust fractions : STEL $\leq 5 \text{ mg/m}^3$

8.2 Exposure controls:

Appropriate engineering controls: No data available.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Wear dust-resistant safety goggles where there is danger of eye contact.

Skin protection:

Hand protection: No protection is ordinarily required under normal conditions of use.

Other: No special precautions.

Respiratory Protection: In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P1).

Hygiene measures: Handle the product in accordance with the good hygiene practices and safety instructions.

Environmental exposure controls: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical State:	Solid
Form:	powder
Color:	Off-white, Light brown
Odor:	Odorless
pH:	~ 5,1 at 10 %
Melting Point:	No data available.
Boiling Point:	Not Applicable
Flash Point:	Not Applicable
Vapor pressure:	Not Applicable
Vapor density (air=1):	Not Applicable
Relative density:	~ 0,4
Solubility in Water:	Insoluble in water at 20 °C
Explosive properties: - INERIS -	
Autoignition Temperature:	> 400 °C (product in deposit).
Minimum ignition energy:	~ 300 - 1.000 mJ
MRP (Maximum Rate of Pressure):	~ 244 bar/s
MaxP (Maximum Pressure):	~ 9,2 bar
Dust Explosion Description Number Kst:	~ 66 barm/s
Explosion Class:	st 1
Moisture.:	~ 7,3 %

Particle Size:

~ 73,2 µm

9.2 Other information:

SECTION 10: Stability and reactivity

- 10.1 Reactivity:** Oxidizing agents.
- 10.2 Chemical stability:** Material is stable under normal conditions.
- 10.3 Possibility of hazardous reactions:** No hazardous reactions under ordinary conditions of use and storage
- 10.4 Conditions to avoid:** Prevent dust cloud. Dust clouds may be explosive under certain conditions.
- 10.5 Incompatible materials:** Strong oxidizing substances.
- 10.6 Hazardous decomposition products:** Carbon Dioxide. Carbon Monoxide. Ammonia. Sulfur dioxide.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects:** No data available.

Remarks: The ingredients of this product are not classified as carcinogenic by the ACGIH, the CIRC, the OSHA or the NTP.

SECTION 12: Ecological information

There are no data on the ecotoxicity of this product.

- 12.1 Toxicity:** No data available.
- 12.2 Persistence and degradability:** No data available.
- 12.3 Bioaccumulative potential:** No data available.
- 12.4 Mobility in soil:** No data available.
- 12.5 Results of PBT and vPvB assessment:** Exempted
- 12.6 Other adverse effects:** None known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

- Product:** Dispose of waste in an appropriate authorised treatment facility in accordance with regulations in force and product characteristics at time of disposal.
- Packaging material:** Single use packaging. Collect for salvage or disposal.

SECTION 14: Transport information

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

- 14.5 Environmental hazards:** Not regulated.

14.6 Special precautions for user: No special precautions.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

SECTION 15: Regulatory information

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

This Safety Data Sheet is not mandatory according to the requirements of regulation (EC) N°1907/2006 (REACH) article 31 and is provided for information.

15.2 Chemical safety assessment: Exempted

SECTION 16: Other information

Revision Information: Not relevant.

Key literature references and sources for data: ToxNet Database.

Disclaimer: The information provided in this Safety Date Sheet (SDS) relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. It is the responsibility of the user to be aware of and to follow the regulations applying to our product for its possession, handling and use.
The information given is designed only as a guidance and is not to be considered a warranty or quality specification.
All information and instructions provided in this SDS are based on the current state of our knowledge at the latest revision date indicated.