

SAFETY DATA SHEET
NUTRALYS® B85F - EXP

SECTION 1 : Identification

1.1 Product identifier:

Product name: NUTRALYS® B85F - EXP - PEA PROTEIN - PROTEINE DE POIS

Chemical name: Pea, ext.
CAS-No.: 90082-41-0
EC No.: 290-130-6

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

Identified uses:	Uses advised against:
Food.	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:

Canada : +1 902 470 8161 or 1 800 565 8161

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

The product has not been classified as dangerous according to GHS.

2.2 Label elements: Not applicable

2.3 Other hazards: May form explosible dust-air mixture if dispersed in the air

SECTION 3: Composition/information on ingredients

3.1 Substance:

Chemical name	Concentration	CAS-No.
Pea, ext.	>=94%	90082-41-0

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. Straight Streams of Water

5.2 Special hazards arising from the substance or mixture: Fire or excessive heat may produce hazardous decomposition products. See Section 10. Combustible dusts : may form an explosible mixture in the air.

5.3 Advice for firefighters:

Special Fire Fighting Procedures:	Prevent dust cloud. Do not use water jet as an extinguisher, as this will spread the fire.
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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	Avoid generation and spreading of dust. See Section 8 of the SDS for Personal Protective Equipment.
7.2 Conditions for safe storage, including any incompatibilities:	Store in a dry place. Minimize exposure to air. Store at room temperature.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Occupational exposure limits:

This product does not contain any components >1% with specific occupational exposure limits.

Chemical name	Type	Exposure Limit Values	Source
Dust - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2019)
Dust - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2019)
Dust - Inhalable particulate.	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (01 2020)
Dust - Respirable particles.	TWAEV	3 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (01 2020)
Dust - Total particulate.	TWA	10 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (01 2019)
Dust - Respirable particles.	TWA	3 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (01 2019)
Dust - Inhalable fraction.	8 HR ACL	10 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (06 2016)
Dust - Respirable fraction.	8 HR ACL	3 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (06 2016)
Dust - Inhalable fraction.	15 MIN ACL	20 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (06 2016)
Dust - Respirable fraction.	15 MIN ACL	6 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (06 2016)
Dust - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (04 2019)
Dust - Inhalable particles.	TWA	10 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (01 2019)
Dust - Respirable particles.	TWA	3 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (01 2019)

8.2 Appropriate engineering controls:

Ventilate as needed to control airborne dust. Use explosion-proof ventilation equipment if airborne dust levels are high.

8.3 Individual protection measures, such as personal protective equipment:

Eye/face protection:

Wear dust-proof safety goggles where there is a risk of eyes contact. (EN 166)

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). (EN 143)

Hygiene measures:

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical State:	solid
Form:	Powder
Color:	Light brown
Odor:	Slight
pH:	~ 7 at 10 % w/w in water
Melting Point:	Not Applicable No data available.
Boiling Point:	Not Applicable
Flash Point:	Not Applicable
Vapor pressure:	Not Applicable
Vapor density (air=1):	Not Applicable
Relative density:	~ 0.45
Solubility in Water:	~ 100 g/l at 25 °C
Explosive properties: - INERIS -Data from similar product. (*): measured value	
MIT (Minimum ignition temperature):	MITc (cloud) : ~ 510 °C (EN 50281-2-1 / ASTM E1491) MITL (5mm Layer) : ~ 400 °C (EN 50281-2-1/ ASTM E2021)
MIE (Minimum Ignition Energy):	* ~ 10 - 30 mJ (EN 13821 / ASTM E2019, With Inductance) Very sensitive to ignition by an electrostatic phenomenon. ~ 286 bar/s (EN 14034-2 / ASTM E1226)
(dP/dt)max (Maximum Rate of explosion Pressure rise):	~ 286 bar/s (EN 14034-2 / ASTM E1226)
Pmax (Maximum Explosion OverPressure) ±10%:	~ 7.5 bar (EN 14034-1 / ASTM E1226)
Kst value (±20%):	~ 78 barm/s (EN 14034-2 / ASTM E1226)
Dust Explosion Class:	st 1 (VDI 3673)
Volume resistivity:	2,74x10 ¹¹ Ω.cm (EN 61241-2-2)
Moisture:	* ~ 7.2 % (ISO 589)
Mv (Median value):	* ~ 29 µm (ISO 13320)
Other Data:	MEC (Minimum Explosible Concentration) : 30-60 g/m ³ (EN 14034-3 / ASTM E1515)

9.2 Other information:

The data reported in this section does not take the place of specifications.

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. Avoid dust close to ignition sources.

10.5 Incompatible materials: Strong oxidizing substances.

10.6 Hazardous decomposition products: Carbon Dioxide. Carbon Monoxide. Ammonia. Sulfur dioxide.

SECTION 11: Toxicological information

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

11.1 Information on toxicological effects:

Acute toxicity :

Test / Substance	Species	Type / Result	Exposure	Remarks
OECD 423	Mouse	LD50 - Oral >2000mg/kg Not classified		- Internal data -
OECD 423	Rat	LD50 - Oral >2000mg/kg Not classified		- Internal data -

Skin irritation. :

Test / Substance	Species	Result	Exposure	Remarks
OECD 404	Rabbit	Not classified.		- Internal data -

Serious eye irritation :

Test / Substance	Species	Result	Exposure	Remarks
OECD 405	Rabbit	Not classified.		- Internal data -

Sensitization :

Test / Substance	Type	Species	Result	Remarks
OECD 429		Mouse	Not classified	- Internal data -

Repeated dose toxicity : No data available.

Mutagenesis :

Test / Substance	Type	Species	Result	Remarks
OECD 471 (Ames)	In vitro	S. typhimurium	Negative	- Internal data -
OECD 474 (micronucleus test)	In vivo		Negative	- Internal data -
OECD 473 (Chromosomal aberration)	In vitro		Negative	- Internal data -

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

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:

Test / Substance	Result	Remarks
Scientific evaluation. Data from similar product.	> 70 % / The product is readily biodegradable.	

12.3 Bioaccumulative potential:	No data available.
12.4 Mobility in soil:	No data available.
12.5 Other adverse effects:	None known.

SECTION 13: Disposal considerations

13.1 Disposal methods:

Product:	Dispose of waste in an appropriate authorized 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

14.1 - 14.4 This material is not subject to transport regulations (IMDG, ICAO/IATA, ADR/RID, ADN).

14.5 Environmental hazards:	Not regulated.
14.6 Special precautions for user:	No special precautions.
14.7 Maritime transport in bulk according to IMO instruments:	Not applicable.

SECTION 15: Regulatory information

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

International Inventories :

Australia. Inventory of Chemical Substances (AICS):	Listed.
China. Inventory of Existing Chemical Substances (IECSC):	Listed.
EU. European Inventory of Existing Commercial Chemical Substances (EINECS):	Listed.
New Zealand. Inventory of Chemicals (NZIoC):	Listed.
Philippines. Inventory of Chemicals and Chemical Substances (PICCS):	Listed.
Taiwan. Existing Chemicals Inventory (TCSI):	Listed.
Vietnam. National Chemical Inventory:	Listed.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

SECTION 16: Other information

Revision Information:	Not relevant.
Key literature references and sources for data:	No data available.
Other information:	Updated version of this document is available at : https://www.roquette.com/site-search#documents

Abbreviations and acronyms used in the SDS.:

LD50: lethal dose 50%
NOAEL : No Observed Adverse Effect Level
CAS: Chemical Abstracts Service (division of the American Chemical Society)

Disclaimer:

The information provided in this Safety Data 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.