

Art. No.: 1128

CAS-No.: -





Einecs No.: -

MATERIAL SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 and No. 1272/2008 Version #1 of 25/01/2015 GENERIC EU MSDS – NO COUNTRY SPECIFIC DATA

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

1.1 Product identifiers		
	Product name	BIO-PROTAN®Microfoliar PWD
	Product number	1128
	Brand of	Protan AG
	REACH No.	A registration number is not available for this substance as the substance or its uses are exempt from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

		•
	Identified uses:	Industrial manufacturing (all) [SU3]. Agriculture, forestry, fishery [SU1]
	Uses advised against:	Do not use for purposes other than those listed

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

Company	Protan Aktiengesellschaft, Runkelstrasse 38, LI-9495 Triesen
Phone	+423 375 15 25
Fax	+423 375 15 26
Email address	info@protan.li

### 1.4 Emergency telephone number

Protan AG +423 375 15 25 (working hours)	
Poison emergency call (24h) +41 (0)44 251 51 51 or 145 (Centre Suisse d'Information Toxicologique) From Switzerland call tel. 145 +49 (0)30 19240 (Gift-Notruf Berlin, 24 hours, language EN and DE)	)

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

The product is classified as hazardous according to the provisions of Regulation (EC) 1272/2008 (CLP/GHS) and subsequent amendments. The product requires a safety data sheet in compliance with the provisions of Regulation (EC) 1907/2006 and subsequent amendments.

Further information on the risks to health and/or the environment are available in sections 11 and 12 of this Material Safety Data sheet.

### 2.1.1. Regulation 1272/2008/EC (CLP) and subsequent amendments

Classification and hazard indication	Eye Dam. 1	H318
Refer to paragraph 16 for full text of risk phrases and hazard statements	Aquatic Chronic 2	H411

### 2.2 Label elements

Labelling in accordance with Regulation 1272/2008/EC (CLP) and subsequent amendments:

Hazard pictogram(s)		
Signal word	Danger	
Hazard statement(s) Physical Hazards (H2XX)	H318 H411	Causes serious eye damage. Toxic to aquatic life with long lasting effects.
Health Hazards (H3XX) Environmental Hazards (H4XX)	5070	
Precautionary statement(s):	P273	Avoid release to the environment.

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		P280	Wear protective gloves/protective clothing/ eye protection/ face protection
		P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
		P310	Immediately call a POISON CENTER or doctor.
		P391	Collect spillage.
		P501	Dispose of contents/container in accordance with regional regulations.
2.:	3 Other hazards		
	PBT/ vPvB criteria:	No PBT and vPvB ass	essment has been conducted according to Annex

XIII of Regulation (EC) No 1907/2006.

None known.

### Other hazards:

### **SECTION 3: Composition/Information on ingredients**

### 3.1 Substances

### 3.2 Mixture

Natural polymer (amino acids and peptides) modified by chemical hydrolysis and mixed with iron sulphate, zinc sulphate, manganese sulphate.

Type of formulation: water-soluble powder fertilizer.

Chemical name	CAS no.	EC no.	Index no.	Classification (Reg. EC 1272/2008)	Content (%w/w)
Iron (II) Sulphate Heptahydrate	7782-63-0	231-753-5	026-003-01-4	GHS07: Acute tox.4, H302; Eye Irrit. 2, H319; Skin Irrit. 2, H315	≤ 21%
Zinc Sulphate Heptahydrate	7732-18-5	231-793-3	030-006-00-9	GHS05: Eye Dam. 1, H318; GHS07: Acute tox.4, H302; GHS09: Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≤ 19%
Manganese (II) Sulphate Monohydrate	10034-96-5	232-089-9	025-003-00-4	GHS05: Eye Dam. 1, H318; GHS08: STOT RE 2, H373; GHS09: Aquatic Chronic 2, H411,	≤ 13%

Refer to paragraph 16 for full text of risk phrases and hazard statements

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance
If inhaled	If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a doctor.
In case of skin contact	Take off contaminated clothing. Wash off with soap and plenty of running water the areas of body that may have been exposed to the product. Wash clothing before reuse. Get medical advice/attention if you feel unwell.
In case of eye contact	Rinse eyes thoroughly with running water, keeping eyelids open for min 15 minutes. Remove contact lenses. Protect eyes with dry sterile gauze and seek medical advice.

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Protan AG	This material s	afety data sheet shall be used i	n conjunction with the	technical data sheet. All information	n and advice a

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If swallowed/ingested	Rinse mouth with plenty of water. Drink plenty of water. Seek medical
	advice/call poison centre if feeling unwell and/or swallowed in great quantity.
	Never give anything by mouth to an unconscious person.

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

The most important known symptoms and effects are also described in section 2.2 (labelling) and section 11.		
If inhaled	May cause irritation of the nasal mucosa, throat and lungs.	
In case of skin contact	Prolonged contact with the skin can cause irritation.	
In case of eye contact	Strong eye irritation up to eye damage, eye redness, lachrymation.	
If swallowed/ingested	Ingestion may cause gastrointestinal irritation, nausea, vomiting, diarrhoea	

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

Symptoms may appear after several hours; therefore, the supervision of a physician within 48 hours after the accident is necessary.

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Use water spray, CO2, alcohol resistant foam, dry chemical, depending on the materials involved in the fire.

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

No direct fire and explosion hazard. Product is not reactive and not flammable. Can emit toxic fumes if involved in a fire: carbon oxide and nitrous vapours, ammonia, sulphur oxides (SO<sub>x</sub>), fumes with metal oxides (see section 10). Possible release of hydrochloric acid (HCI). Do not breathe-in combustion products.

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus and suitable protective clothing.

### 5.4 Further information

**SECTION 6: Accidental release measures** 

Collect extinguishing water and do not discharge into drains. Dispose of contaminated fire extinction water and fire remains according to applicable national and local regulations (see section 2.2).

6.1	l Personal precautions, protective equ	uipment and emergency procedures
	General advise:	Always ensure your own safety first. Use proper equipment as indicated in section 8.
	For non-emergency personal	Follow safety precautions and act according to the rules of hygiene and good industrial practice. Avoid contact with eyes, product dust and mist!
	For emergency responders	Wear gloves, protective clothing and respiratory protection. Avoid contact with eyes and skin. When exposure is prolonged and the concentration in the air is high, wear goggles and filter mask class FFP3. Evacuate the danger area. In case of fire, wear respiratory protection and eliminate all unguarded flames and sources of ignition.

## 6.2 Environmental precautions

Contains Zinc Sulphate Heptahydrate and Manganese (II) Sulphate Monohydrate toxic to aquatic life with long lasting effects. Avoid release to the environment. Collect spillage as much as possible for re-use and limit the area of shedding. Do <u>not</u> let product enter drains, sewers, surface water, ground water. If the product has entered a

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watercourse in sewers or has contaminated soil or vegetation, notify it to the authorities.

### 6.3 Methods and material for containment and cleaning up

Ensure adequate ventilation. Recover the product for removal or re-use. Keep in suitable, labelled and closed container/bags for disposal in accordance with regulations.

### 6.4 Reference to other sections

For emergency contact info	see section 1
For personal protection	see section 8
For waste disposal	see section 13

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

### 7.1 Precautions for safe handling

Technical measures/precautions	Refer to section 8 for personal protection. Avoid contact with eyes, skin and clothing and avoid inhalation of product dust. When diluting, always stir the product into standing water.
General occupation hygiene	Handle in accordance with good industrial hygiene practice and observing general safety regulations for handling chemicals: Do not eat, drink or smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

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

Technical measures/storage conditions:	Normal storage conditions without particular incompatibilities. Keep <u>dry</u> in <u>closed</u> original packaging. Do not store in open or unlabelled packaging. Avoid possibility of bag falls or handling damages.
Storage compatibility:	Store separately from food and animal feed.
Additional disclosures on stock conditions:	Store in a cool, dry and well-ventilated place.
Storage class	Non combustible powder.
Classification according Regulation 2009/104/EEC	-

### 7.3 Specific end use(s)

Fertilizer. No other specific uses are stipulated apart from the uses mentioned in section 1.2

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

### 8.1 Control parameters

Apply general workplace control parameters. No further information apart from section 7.

### 8.2 Exposure controls/personal protection

Appropriate engineering controls Handle in accordance with good industrial hygiene practice and the usual precautionary measures for handling chemicals. As the use of adequate technical equipment must always take priority over personal protection equipment, ensure good ventilation in the workplace through effective local aspiration or ventilation.

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Personal protective equipment:	See product label for hazard details. Avoid contact with eyes and skin. Do not breathe in product dust and mist. An eyewash facility and a safety shower for facilities storing or utilizing this material is good industrial practice.
- Eye/face protection	Safety glasses with side shield strictly recommended. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Face shield recommended for long-term exposure, depending from concentration of dangerous substance at the specific workplace.
- Hand protection	Product handling requires the use of chemical resistant gloves. For full and splash contact we advise the use of impermeable "Nitrile, PVC or Neoprene Rubber Gloves (NBR", minimum layer thickness of 0.11 mm. Break through time: 480 min. Inspect gloves prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with the product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
- Skin and body protection	Dust proof work clothing.
- Respiratory protection	We recommend the use of a full-face particle/dust respirator type N100 (US) or type P3 (EN 143). Use FFP3 respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure	Minimize product release in the environment.

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

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Appearance, form	powder	Vapour pressure	not determined
Appearance, colour	greyish	Vapour density	not determined
Odour	undefined	Relative density	350 - 400 kg/m <sup>3</sup>
Odour threshold	not applicable	Water solubility(ies)	soluble
pH value at 20°C (1:10)	4 - 5	Partition coefficient:	not determined
		n-octanol/water	
Melting point Freezing point	not determined - 2 °C	Auto-ignition temperature	not determined
Initial boiling point and boiling range	not determined	Decomposition temperature	not determined
Flash point	not applicable	Viscosity (dynamic at 20°C)	not determined
Evaporation rate	not applicable	Explosive properties	not determined
Flammability (solid, gas)	not self-igniting	Oxidising properties	not determined
Upper/lower flammability or explosive limits	not explosive	Vapour pressure	not determined

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### 9.2 Other safety information

No further relevant information available.

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

The product is stable and not reactive if handled according to the advised recommendations of use.

### 10.2 Chemical stability

Stable under recommended storage conditions (see section 7, handling and storage).

### 10.3 Possibility of hazardous reactions

To our knowledge, the product does not present particular risk under normal conditions of use. For further information, refer also to section 10.5.

### 10.4 Conditions to avoid

Avoid moist warehousing conditions. Close packaging after use.

### 10.5 Incompatible materials

With strong oxidant agents like oxidants mineral acids, organic peroxides, organic water peroxides, elementary metals, exothermic reactions can occur. Combination with strong reducing agents develops hydrogen. Avoid the mixture with strong acids. Apply cautiously in combination with copper, mineral oil based products and sulphur products.

### 10.6 Hazardous decomposition products

In the event of fire, refer to section 5.

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Acute toxicity:	
Acute oral toxicity:	Data not available. Predictably not relevant.
Acute dermal toxicity:	The product classification is toxic. It causes dermal irritation, nausea, vomiting, diarrhoea.
Acute inhalation toxicity:	Data not available. Predictably not relevant.

Local effects:	
Skin irritation:	Data not available. Predictably not relevant.
Eye irritation:	The product classification is corrosive. It causes significant irritations and possible damage in contact with eyes.
Skin sensitisation:	Data not available. Predictably not relevant.
Other:	
Sub-acute toxicity:	Data not available.
Mutagenicity:	Data not available.
Reproductive toxicity:	Data not available.
Carcinogenicity:	Data not available.

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### **SECTION 12: Ecological information**

### 12.1 Toxicity

The product is a fertilizer and does not cause adverse effects in the environment if handled according to the advised dosages and recommendations of use. Low concentrations discharged correctly into adapted biological sewage treatment plants do not interfere with degradation activity of activated sludge. Handle according to good industrial hygiene practice. Avoid dispersal in the environment. Inform competent authorities in case of contamination of waterways, sewers, soil or vegetation. Further data regarding the aquatic toxicity are not available.

### 12.2 Persistence and degradability

No data available

### 12.3 Bio accumulative potential

No data available.

### 12.4 Mobility in the soil

Prevent the penetration of concentrated product in the soil and the dispersion in surface waters without proper biological treatment of wastewater.

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not carried out.

### 12.6 Other adverse effects

No data available.

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Unused product	Recover if possible. Dispose of surplus and non-recyclable solutions by a licensed disposal company following the national and local regulations. Handle in accordance with good industrial hygiene practice and the usual precautionary measures for handling chemicals.
Contaminated packaging	Dispose of as unused product.

### **SECTION 14: Transport information**

14.1 UN number ADR/RID: 3077	IMDG: 3077	IATA: 3077
IMDG: ENVIRONMENTALL	ALLY HAZARDOUS SUBSTANCE Y HAZARDOUS SUBSTANCE, so	, solid, N.O.S. (manganese sulphate, zinc sulphate) blid, N.O.S. (manganese sulphate, zinc sulphate) lid, N.O.S. (manganese sulphate, zinc sulphate)
<b>14.3 Transport hazard class(e</b> ADR/RID: 9	s) IMDG: 9	IATA: 9
<b>14.4 Packaging group</b> ADR/RID: III	IMDG: III	IATA: III

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ning his activity and take all precautions necessary to fulfil the obligations concerning the use of hazardous and not hazardous products. Unless otherwise agreed in writing, our sales and delivery conditions apply accordingly.



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### 14.5 Environmental hazards

ADR/RID: yes

IMDG: Marine pollutant: yes

IATA: 9

### 14.6 Special precautions for users

### Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packaging and combination packaging containing inner packaging with dangerous goods > 5L for liquids or > 5kg for solids.

### **SECTION 15: Regulatory information**

Hazardous substance or mixture according to Regulation (EC) No. 1272/2008 (Regulation on classification, labelling and packaging of substances and mixtures).

BIO-PROTAN<sup>®</sup>Microfoliar PWD is produced and marketed according to the following regulations: Regulation (EC) No. 1069/2009 laying down health rules concerning animal by-products not intended for human consumption and Regulation (EC) No. 889/2008 laying down detailed rules for the implementation of Regulation (EC) No. 834/2007 (Organic production and labelling of organic products with regard to organic production, labelling and controls).

This safety data sheet complies with the requirements of Article 31 of EC Regulation 1907/2006/EC (REACH regulation) and the information contained herein is displayed in the order prescribed in Annex II to that regulation as amended in the year 2010 (435/2010/EC).

The purpose of this safety data sheet is to facilitate the carrying out of a risk assessment. We remind employers of their duty to carry out such an assessment and subsequently to provide an appropriate working environment. It is the employer's duty to procure all necessary personal protective equipment and ensure that all workers handling the product use such equipment.

### 15.1 Safety, health, and environmental regulation specific for the substance or mixture

Restrictions in relation to the product or contained substances pursuant to Annex XVII to Regulation (CE) 1907/2006	None
Substances in candidate list (Art 59 REACH)	None
Substances subject to authorization (Annex XIV)	None
Sanitary control	Workers exposed to chemicals are subject to the control of health authorities following the national and local regulations.

### 15.2 Chemical safety assessment

No chemical safety assessment required or carried out by the supplier of the product.

### **SECTION 16: Other information**

Changes since last issue	New release.
Safety data sheet contact person	Protan AG, Christian DOBERS, phone no. +423 375 15 25
General bibliography	Regulation (EC) 453/2010/EC of the European Parliament amending Regulation 1907/2006/EC (REACH) Regulation (EC) 1107/2009 (CLP) Regulation (EC) 790/2009 (I apt. CLP) Regulation (EC) 1272/2008 (CPL/GHS) Safety Data Sheets provided by suppliers of component substances.

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Abbreviations and acronyms	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road RID: Regulations Concerning the International Transport of Dangerous Goods by Rail IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association ICAO: International Civil Aviation Organization GHS: Globally Harmonized System of Classification and Labelling of Chemicals RTECS: Registry of Toxic Effects of Chemical Substances REACH: Registration, Evaluation, and Authorisation of Chemicals CLP: Classification, Labelling and Packaging
Description of Hazard statements (H-phrases) set out in SECTION 2-3	STOT RE 2 = Specific Target Organ Toxicity / repeated exposure / cat. 2 Acute Tox.4 = Acute Toxicity, category 4 Aquatic acute 1 = Hazardous to the aquatic environment / acute / cat. 1 Aquatic chronic 1 = Hazardous to the aquatic environment / chronic / cat. 1 Aquatic chronic 2 = Hazardous to the aquatic environment / chronic / cat. 2 Eye Dam. 1 = Eye damage, cat. 1 Eye Irrit. 2 = Serious eye irritation / category 2 Skin Irrit. 2 = Skin irritation / category 2
	GHS05: For substances and mixtures, which are corrosive to metals, corrosive to skin and damage eyes severely GHS07: Acute toxicity (oral, dermal, inhalation) GHS08: Health hazard GHS09: Environmental Hazard
	H315 = Causes skin irritation H319 = Causes serious eye irritation H411 = Toxic to aquatic life with long lasting effects

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### Legal notice

This Material Safety Data Sheet (MSDS) is additional to the Technical Data Sheet (TDS) but does not replace it. The MSDS contains guidance on the safe handling, use, processing, storage, transportation and disposal of the product. This document relates to the original product BIO-PROTAN®Microfoliar PWD. It may not be valid for the formulation or combination with other materials or in any process. The product is developed and tested for the specified uses and should not be used for any other purposes. Any other use may involve risks. The user will take sole responsibility for the precautions relating to the use of the product. The information in this MSDS is applicable to the product with regard to appropriate safety precautions and is not intended to guarantee any particular properties. This document is not to be considered a warranty or quality specification.

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