

Safety Data Sheet

MSDS-BI-eng-10

Amended according to Directive (EEC) 1907/2006 (REACH)

1	Identification of the Substance / Preparation and of the Company	
	Product Name	BioAct® WP
	Use	Biological plant protection product
	Mode	Antagonism against one specific fungal plant disease
	Producer	PROPHYTA Biologischer Pflanzenschutz GmbH Inselstrasse 12 D-23999 Malchow/Poel Phone: +49/38425/230, FAX: +49/38425/2323, info@prophyta.com
	Supplier	(see producer)
	Information Centre	PROPHYTA, phone: +49/38425/230
	Emergency Phone	+49-38425-23-0 (during the business hours)
2	Hazard Identification	
	Classification	none
	Special Advice for Humans and Environment	Keep (remaining) product away from waters. Avoid any contact with the product. Misuse may lead to health damage. Non-hazardous to honeybees due to the use of the product. Non-hazardous to relevant populations of beneficials due to selectivity of the product.
3	Composition / Information on Ingredients	
	Chemical Characterization	biological product, contains spores of <i>Paecilomyces lilacinus</i> , strain: 251,
	Composition	1. 1x10 ¹⁴ active spores / kg of <i>Paecilomyces lilacinus</i> ,
	Hazardous Ingredients	none
	Identification	EEC No.: - Index No.: - CAS No.: - REACH-Nr.: -
	Other Information	none
4	First Aid Measures	
	General Advice	Keep out of the reach of children and store in original containers only.
	Inhalation	Remove from source of exposure to fresh air seek medical attention. Provide symptomatic/supportive care as necessary.
	Skin Contact	non-hazardous
	Eye Contact	not irritant
	Ingestion	Remove from source of exposure. Flush with copious amounts of water and seek medical attention. Provide symptomatic/supportive care as necessary.
	Other Information	none
	Advice to Physician	Symptoms and Treatment: no specific symptoms known, no special advice for treatment after contamination with the product.
5	Fire-Fighting Measures	
	Extinguishing Media	water mist, foam, carbon dioxide and dry powder
	Measures unsuitable for Safety Reasons	none
	Special Hazard Properties (Products or Gasses from Thermal Combustion)	not relevant
	Protective Equipment	not necessary
6	Accidental Release Measures	
	Personal Precautions	none
	Environmental Precautions	Keep product away from waters.
	Cleaning/Disposal	Spray remaining product dispersed in liquid manure. Small amounts can be added to compost.
	Other Advices	none

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7	Handling and Storage		
	Handling		
	Safety Precautions	Do not inhale dust. Avoid contact with the product.	
	Environmental Precautions	Keep product away from waters.	
	Fire and Explosive Protection	none	
	Storage		
	Storage Conditions	Store in original package only. Sealed packages can be stored for at 12 months at temperatures below 4 °C.	
Advices for Storage with other Products		None	
Other Information on Storage		None	
8	Exposure Controls / Personal Protection		
	Exposure limit values	none	
	Maximum Concentrations at Operator's Position	none	
	Personal Protective Equipment	none	
	General Protection	Avoid any contact with the product.	
	Inhalative Protection	Use with adequate ventilation to prevent dust inhalation.	
	Skin Protection	not necessary	
	Eye Protection	not necessary	
	Hygiene Recommendations	Wash hands after contact with the product.	
	Environmental Exposure control	no danger by default; avoid exposure to waters	
9	Physical and Chemical Properties		
	General information		
	Appearance	physical state: powder colour: dark violet	
	smell	none	
	Important health, safety and environmental information		
	pH value	product: not relevant in water [100g/l at 20 °C]: 6 – 7	
	Boiling point [°C]	not relevant	
	Flashpoint [°C]	not relevant	
	Flammability	not flammable	
	Explosive Properties	not tested	
	Vapour pressure	not relevant	
	Oxidizing Properties	none	
	Bulk Weight [kg/m ³ at 20°C]	351 (Density); 459 (Tab Density)	
	Solubility/Miscibility in Water	insoluble / dispersible in water	
	Viscosity	not applicable	
	Vapour Density	not relevant	
	Evaporation Rate	not relevant	
	Other information		
	Melting Point [°C]	not relevant	
	Freezing Point [°C]	not relevant	
	Auto ignition [°C]	no autoignition up to 500 °C	
	10	Stability and Reactivity	
		Thermal Decomposition / Conditions to be Avoided	Do not store under wet conditions, avoid long term exposition to temperatures above +20° C.
Hazardous Reactions		susceptible to fungicides, acids and hydroxides, products attacking organic material	
Hazardous Decomposition Products		none	
Other Information		none	

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11	Toxicological Information	
	Acute Toxicity	LD50 intraperitoneal: rat: > 4 x 10 ⁹ spores/ kg animal weight LD50 dermal: rat: > 4 x 10 ⁹ spores/ kg animal weight LD50 acute oral: rat: > 4 x 10 ⁹ spores/ kg animal weight Pulmonary Toxicity/Pathogenicity: rat: > 2.5 x 10 ⁸ spores per animal LC50 inhalative: rat: > 8 x 10 ⁷ spores per animal Skin irritation: rabbit: > 1 x 10 ⁹ spores per ml water on skin Acute eye irritation: rabbit: > 4.48 x 10 ⁸ per eye sack
	Sensitisation	guinea-pig: > 1 x 10 ⁹ spores per ml water on skin
	Genotoxicity	Mutagenicity in-vitro: bacteria: non-mutagenic Mutagenicity in vivo: mouse: non-mutagenic Micro-Nucleus: mouse: non-clastogenic (OECD 474)
	Practical Experiences	Observations for Classification: none Other Observations: none
12	Ecological Information	
	Ecological Effects	toxicity to aquatic organisms: acute toxicity / fish: > 100 mg/L, 96h (OECD 203) acute toxicity / daphnia: > 100 mg/L, 48h (OECD 202) acute toxicity / algae: > 100 mg/L, 72h (OECD 201) effects on water plants: not available
	Effects on Waste Water Treatment	not available
	Mobility	none
	Persistence and degradability	physical/chemical: thermal combustion at 600 °C without any residues or hazardous products biological: readily biodegradable
	Bioaccumulative Potential	none
13	Disposal	
	Product	Spray remaining product dispersed in liquid manure. Small amounts can be added to compost.
	Packages	Recommendations: Add empty packages to local waste disposal or recycling system. Cleaning Agent: no special cleaning necessary
14	Transport Information	
	Transport Conditions	land: no restrictions sea: no restrictions air: no restrictions
	Other Information	none
15	Regulatory Information	
	EEC Classification	none
	Hazard Symbol / Labelling	none
16	Other Information	
	R-phrases	none
	S-phrases	none
	Other Regulations	none
	<p>The purpose of the above information is to describe the product only in terms of health and safety requirements. The information given should not, therefore, be construed as guaranteeing specific properties or as a specification. Customers should satisfy themselves as to the suitability and completeness of such information for their own particular use.</p>	
	Contact Person	Dr. Peter Lüth, PropHYTA, phone: +49/38425/230