

**PHOSTROGEN ERICACEOUS PLANT FOOD**Version 1 / GB
1020000137911/7
Revision Date: 18.05.2007
Print Date: 21.05.2007**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name PHOSTROGEN ERICACEOUS PLANT FOOD
Product code (UVP) 05847078
Usage Fertiliser
Company Bayer CropScience Limited
230 Cambridge Science Park
Milton Road
Cambridge
Cambridgeshire CB4 0WB
Great Britain

Telephone +44(0)1223 226500
Telefax +44(0)1223 426240
Emergency telephone number 0800-220876 (UK 24 hr)
+44(0)1603-242424 (Overseas 24 hr)

2. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**

Water soluble powder (SP)
N+P+K+Fe+Mg+Mn+S 15+10+15+0,26+2,5+0,028+29,8 % w/w

Hazardous components

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases(s)	Concentration [%]
Potassium nitrate	7757-79-1 231-818-8	O	R 8	> 10.00
Ammonium dihydrogenphosphate	7722-76-1 231-764-5	Xi	R36/37/38	> 1.00 - < 20.00
Manganese sulphate	7785-87-7 232-089-9	Xn, N	R48/20/22, R51/53	> 0.10 - < 2.50

3. HAZARDS IDENTIFICATION**Risk advice to man and the environment**

Contact with combustible material may cause fire.

4. FIRST AID MEASURES**Inhalation**

Move to fresh air. Keep patient warm and at rest.

Skin contact

Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.

Eye contact

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also

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under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.

Ingestion

DO NOT induce vomiting unless directed to do so by a physician or poison control center. Rinse out mouth and give water in small sips to drink. Keep patient warm and at rest.

Notes to Physician**Symptoms**

Local:, Slight irritation.

Symptoms

Systemic:, Diarrhoea, Vomiting, Nausea

Treatment

Local treatment:
Initial treatment: symptomatic.

Treatment

Systemic treatment:
Initial treatment: symptomatic.
In the event of a mouthful or more being ingested, the following measures should be considered:
In case of ingestion, the stomach should be emptied by gastric lavage under medical supervision.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which must not be used for safety reasons

High volume water jet

Specific hazards during fire fighting

Dangerous gases are evolved in the event of a fire.

Special protective equipment for fire-fighters

In the event of fire and/or explosion do not breathe fumes.
In the event of fire, wear self-contained breathing apparatus.

Further information

Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.
Whenever possible, contain fire-fighting water by diking area with sand or earth.

6. ACCIDENTAL RELEASE MEASURES**Personal Precautions**

Avoid dust formation.
Avoid contact with spilled product or contaminated surfaces.
When dealing with a spillage do not eat, drink or smoke.

Environmental Precautions

Do not allow to get into surface water, drains and ground water.
If spillage enters drains leading to sewage works inform local water company immediately.
If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).



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Methods for Cleaning Up

Sweep up or vacuum up spillage and collect in suitable container for disposal.
Clean floors and contaminated objects with plenty of water.

Additional Advice

Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.
Check also for any local site procedures.

7. HANDLING AND STORAGE

Handling

Advice on safe handling

No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.

Avoid dust formation.

Ensure adequate ventilation.

Advice on protection against fire and explosion

No special precautions required.

Storage

Requirements for storage areas and containers

Store in original container and out of the reach of children, preferably in a locked storage area.

Keep away from direct sunlight.

Keep containers tightly closed in a dry, cool and well-ventilated place.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Storage stability

Other data

Storage temperature should ideally lie between 0 and 30 °C, however, storage for two weeks at 54 °C has shown no adverse effects regarding product safety or stability.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
Manganese sulphate	7785-87-7	0.5 mg/m ³ (TWA)	2005	EH40 WEL

Personal protective equipment

In normal use conditions personal protective equipment is not deemed to be necessary. If there is a potential for excessive exposure the following applies:

Respiratory Protection

Wear respirator with a particle filter mask (protection factor 4) conforming to European norm EN149FFP1 or equivalent.

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	Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.
Hand Protection	Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.
Eye protection	Wear goggles conforming to EN166 (Field of Use 5 or equivalent).
Skin and body protection	Wear standard coverall and type 6 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.
Hygiene measures	When using, do not eat, drink or smoke. Wash hands immediately after work, if necessary take a shower.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	crystalline powder
Colour	off-white

Safety data

pH	4.2 at 50 g/l
Water solubility	soluble
Oxidizing properties	Contains potassium nitrate which is classified as an oxidising agent.

10. STABILITY AND REACTIVITY

Conditions to Avoid	Extremes of temperature and direct sunlight.
Materials to avoid	Bases
Hazardous Reactions	No hazardous reactions when stored and handled according to prescribed instructions. Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD50 (rat) > 2,000 mg/kg
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Acute Inhalation Toxicity	LC50 (rat) > 20.0 mg/l Exposure time: 4 h
Acute Dermal Toxicity	LD50 (rat) > 2,000 mg/kg
Skin Irritation	No skin irritation. (rabbit)
Eye Irritation	No eye irritation. (rabbit)
Sensitization	Non-sensitizing. (guinea pig)

Further information

The above values are calculated as prescribed by the "Conventional Method" according to 1999/45/EC.

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to Fish	LC50 (Fish) > 100 mg/l Exposure time: 96 h
Toxicity to daphnia	EC50 (Daphnia) > 100 mg/l Exposure time: 48 h
Toxicity to algae	EC50 (Algae) > 100 mg/l Exposure time: 96 h

Further information on ecology

Additional ecological information

The above values are calculated as prescribed by the "Conventional Method" according to 1999/45/EC.

13. DISPOSAL CONSIDERATIONS**Product**

Do not empty into drains.
Dispose of unused product in its container at a household waste site (civic amenity site).
Contact your local council (local authority) for details.

Contaminated packaging

Dispose of empty container in the dustbin.
Follow advice on product label and/or leaflet.

Waste key for the unused product

020108 agrochemical waste containing dangerous substances

14. TRANSPORT INFORMATION**ADR/RID/ADNR**

UN-No.	1479
Labels	5.1

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Packaging group	III
Hazard no.	50
Description of the goods	OXIDIZING SOLID, N.O.S. (POTASSIUM NITRATE MIXTURE)

IMDG

UN-No.	1479
Labels	5.1
Packaging group	III
EmS	F-A , S-Q
Description of the goods	OXIDIZING SOLID, N.O.S. (POTASSIUM NITRATE MIXTURE)

IATA

UN-No.	1479
Labels	5.1
Packaging group	III
Description of the goods	OXIDIZING SOLID, N.O.S. (POTASSIUM NITRATE MIXTURE)

UK 'Carriage' Regulations

UN-No.	1479
Labels	5.1
Packaging group	III
Hazard no.	50
Emergency action code	1Y
Description of the goods	OXIDIZING SOLID, N.O.S. (POTASSIUM NITRATE MIXTURE)

15. REGULATORY INFORMATION

This product has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3 and any subsequent amendments.

Classification:

Hazard warning labelling compulsory

Symbol(s)

O Oxidising

R-phrase(s)

R 8 Contact with combustible material may cause fire.

S-phrase(s)

S 2	Keep out of the reach of children.
S46	If swallowed, seek medical advice immediately and show this container or label.

Exceptional labelling

To avoid risks to man and the environment, comply with the instructions for use.

Further information

WHO-classification: III (Slightly hazardous)

16. OTHER INFORMATION



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Further information

Text of R phrases mentioned in Section 2:

R36/37/38	Irritating to eyes, respiratory system and skin.
R48/20/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 8	Contact with combustible material may cause fire.

The above information is intended to give general health and safety guidance on the storage and transport of the product.

It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with.

The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given.

The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate.

No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.