

P-BOOST

SAFETY DATA SHEET

Conforms to Regulation (EC) n°1907/2006 (REACH)

SECTION 1. Identification of the substance/mixture and of the company/enterprise

1.1 Product identifier

Product name : **P-BOOST**
Product code : PB
Product type : water-soluble, organo-mineral fertilizer

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

1.2.1 Relevant identified uses

Main use category : Industrial, professional, consumers.
Use of the substance / mixture : Professional of the fertilizer for agricultural purposes.
: Professional use of the fertilizer in greenhouses.
: Professional use in agriculture, forestry and the fishing industry

1.2.2 Uses advised against

Do not use for any other purposes other than listed.

1.3 Details of the supplier of the safety data sheets

1.3.1 Address of the manufacturer / supplier

IB.ECO B.V.
Industrieterrein De Horsel
Daelderweg 22
6361 HK NUTH
Netherlands
Phone : +31 (0)45 5778305 - Fax : +31 (0)45 5778306
Website : www.ibeco.nl

1.3.2 E-mail address of the person responsible for this SDS

info@ibeco.nl

1.4 Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Remark
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	Only for the purpose of informing medical personnel in cases of acute intoxications
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	Only for the purpose of informing medical personnel in cases of acute intoxications

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SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No. 1272/2008 (CLP)

Classification : H315 – Causes skin irritation.
: H318 – Causes serious eye damage.

2.1.2 Physicochemical effects, human health & the environment

No additional information available.

2.2 Label elements

2.2.1 Labelling in accordance with Regulation (EC) n°1272/2008 (CLP)



Hazard pictograms :
Signal word : GHS05.
Hazardous component(s) : Phosphoric acid
Hazard statements : H315 – Causes skin irritation.
: H318 – Causes serious eye damage.

2.2.2 Precautionary statements

Prevention : 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/physician.
Response : Non applicable.

2.3 Other Hazards

2.3.1 Substance/mixture meets the criteria for PBT according to Regulation (EC) No 1907/2006, Annex XIII
Non applicable.

2.3.2 Substance/mixture meets the criteria for vPvB according to Regulation (EC) No 1907/2006, Annex XIII
Non applicable.

2.3.3 Other hazards which do not give rise to a classification
Non applicable.

SECTION 3. Composition / information on ingredients

3.1 Substances

Non applicable.

3.2 Mixtures

Nom	Identifiers	%	Classification according to Regulation (EC) No. 1272/2008
* Phosphoric acid	(n°CAS) : 7664-38-2 (n°EC) : 231-633-2 (Identification number EU) : 015-011-00-6 (N° REACH = RRN) : 01-2119485924-24	15	Skin Corr. 1B, H314

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SECTION 4. First aid measures

4.1 Description of first aid measures

General advice:

Monitor vital functions.
Victim unconscious: maintain free airway.
Breathing: artificial respiration or oxygen. Cardiac arrest: resuscitate the victim. Conscious victim with respiratory disorders: semi-sitting position.
Shock: position preferably on the back, slightly raised legs. Vomiting: prevent the suction asphyxiation/pneumonia.
Prevent any cooling covering victim (not warm). Monitor the victim permanently. Provide psychological assistance.
Keep the victim calm, avoid him any effort. According to the State: doctor/hospital.

Inhalation:

Move the victim outside and keep at rest in a position where he/she can comfortably breathe. Respiratory disorders: consult a doctor/medical service.

Direct contact with skin (of the pure product):

Wash thoroughly with soap and running water. Soap can be used. Remove any clothing or shoe contaminated.
Consult a physician if irritation persists. Wash contaminated clothing before reuse

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water for at least 10 minutes. Occasionally lifting the upper and lower eyelids. Remove contact lenses if the victim wears them and they can be easily removed. Continue rinsing. Take the victim at an ophthalmologist.

Ingestion:

Non-hazardous. It is possible to administer activated charcoal in water or mineral medicinal vaseline oil.
Consult a doctor / medical service if you feel unwell. Rinse mouth with water.
If a person has swallowed this product and is conscious, give to drink small amounts of water. Do not induce vomiting unless otherwise noted from medical personnel.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: No specific data
Symptoms/injuries after skin contact	: No specific data
Symptoms/injuries after eye contact	: No specific data
Symptoms/injuries after ingestion	: No specific data

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: Immediately contact a specialist for the treatment of poisoning if large amounts have been ingested or inhaled. : In case of Inhalation of products of decomposition in a fire, the symptoms may be delayed. The exposed person may need to remain under medical supervision for 48 hours.
Specific treatments	: No specific treatment .

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Adapt fire extinguishing measures to the environment. Water spray, CO2, foam, chemical powder depending on the materials involved in the fire.
Unsuitable extinguishing media	: Water jets. Use jets of water only to cool the surfaces of the containers exposed to fire.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: No specific data.
Hazardous combustion products	: No specific data.

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5.3 Advice for firefighters

Special precautions and protective equipment for fire-fighters :

Fire/warm-up: Position yourself upwind.
In the presence of fire, quickly identify the site in evacuating everyone near the scene of the accident. No initiative must be taken which involves an individual risk or in the absence of appropriate training.
Fire/warm-up: Close doors and windows in the neighborhood.
If it can be done with no risk, move the containers away from the fire zone. Cool containers exposed to the flames with a water jet.

Firefighters must wear appropriate protective equipment as well as an autonomous, full mask respiratory protection apparatus operated in positive pressure mode. Clothes for firefighters include helmets, boots and protective gloves (complying with European standard EN 469 for providing a level of basic protection against chemical accidents).

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- 6.1.1 For non-emergency personnel**
- : Leave the area surrounding the spill or release. Do not touch or walk on the spilled product. Do not smoke.
- 6.1.2 For emergency responders**
- : Wear gloves and protective clothing.
Eliminate all unguarded flames and possible sources of ignition. No smoking. Provision of sufficient ventilation. Evacuate the danger area and, if needed, consult an expert.

6.2 Environmental precautions

Contain spill with earth or sand.
If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify the authorities.
Discharge the remains in compliance with the regulations

6.3 Methods and material for containment and cleaning up

- 6.3.1 For containment**
- : Stop the leakage and contain it. Any spill should be cleaned quickly. Collect spill in closable containers, suited for disposal. Remove the rest of spill with an absorbent inert material (e.g. sand, dirt, vermiculite). Put the absorbed product in a closable container.
- 6.3.2 Cleaning procedure(s)**
- : Rinse the spilled surface thoroughly with water. Clean equipment and clothes.
- 6.3.3. Other information**
- : Dispose of the product according to the degree and type of contamination, as fertilizer or in an authorized waste dump.

6.4 Reference to other sections

Refer to paragraphs 8 and 13 for more information.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

- Protective measures**
- : Carry operations in the open air/under local exhaust or at sufficient ventilation to keep airborne levels below recommend/statutory exposure levels. Do not breathe vapor or mist.
Wear protective gloves/protective clothing/eye protection as advised in section 8.
Do not get in eyes, on skin, or on clothing. Never dilute by pouring water to the acid.
For preference use pumping techniques for unloading and discharging.
Care for eyewash stations and security showers at the workplace.
- General advice on personal health**
- : Do not eat, drink or smoke during use. Always wash hands after handling the product.
Remove contaminated clothing and protective equipment before entering eating areas. If on skin, take off contaminated clothing.

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7.2 Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly.
Do not store in open or unlabeled containers.
Keep containers upright and safe by avoiding the possibility of falls or collisions.
Store in a cool place, away from sources of heat and `direct exposure of sunlight.

Incompatible materials : Keep away from ferrous metals.

7.3 Specific end use(s)

Agriculture, forestry, fishery.
Fertilizers

SECTION 8. Exposure control / individual protection

8.1 Control parameters

Relating to substances : Phosphoric acid

Regulation	Value type	Indicative occupational exposure limit value (mg/m³)
EU	TWA – 8h	1 mg/m³ (0,2 ppm for vapor)
EU	STEL – 15 min.	2 mg/m³ (0,5 ppm for vapor)

Recommended monitoring procedures :

If this product contains ingredients with exposure limits, it may be necessary to conduct a follow-up review of the people, the atmosphere in the workplace and/or living organisms to determine the effectiveness of the ventilation or other control measures in order to evaluate the need of using respiratory protective equipment. It is important to refer to the European standard EN 689 concerning methods to assess exposure by inhalation of chemical agents and national policy documents relating to these methods for determining hazardous substances.

DNEL/DMEL – Workers	
Acute – local effects, inhalation	2 mg/m3
Long-term – local effects, inhalation	1 mg/m3
DNEL/DMEL - General population	
Long-term = local effects	0,73 mg/m3
PNEC** - water	
PNEC (fresh water)	pH : 6 - 9

** PNEC (additional information) : PNEC values are not known or derived

8.2 Exposure controls

8.2.1 Exposure controls

If user operations generate dust, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Care for eyewash stations and security showers at the workplace.

8.2.2 Personal protection equipment / Health measures

Thoroughly wash hands, forearms and face after handling chemical products, before eating, Smoking, going to the toilet and at the end of the working day. Wash contaminated clothing before reuse. A washing plant or water must be accessible for cleaning of the eyes and skin.

- A) Eye / facial protection

B) Skin and body protection

C) Hand protection

D) Respiratory protection

E) Thermal Hazards
- : Safety glasses. Face shield where there is a risk of leaks or splashes.

: Wear suitable protective clothing. Impervious footwear must be worn.

: Gloves. Butyl rubber (IIR) / (0,7 mm). Nitrile rubber (NBR) / (0,4 mm). Chloroprene rubber (CR) / (0,5 mm).

: Carry operations in the open air/under local exhaust or at sufficient ventilation to keep airborne levels below recommend/statutory exposure levels. Mist formation: aerosol mask with filter type P2.

: No hazard to report.

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8.2.3 Environmental protection measures : Use according to good working practices, avoiding the rejection of the product in the environment.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical and chemical properties	Value
State of matter	Liquid
Color	brown
Odor	Characteristic light smell
Odor threshold	Not determined
pH	3
Melting point/freezing point	Not determined
Initial boiling point and boiling range	Not determined
Flash point	Irrelevant
Evaporation rate	Not determined
Flammability (solid, gas)	Irrelevant
Upper/lower flammability or explosive limits	Irrelevant
Vapor pressure (at ...°C)	Not determined
Vapor density (at ...°C)	Not determined
Relative density (at ...°C)	Not determined
Water Solubility	100% soluble
Partition coefficient: n-octanol/water	Not determined
Auto ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not determined
Explosive properties	Not explosive
Oxidizing properties	Not determined

9.2 Other information

No data available.

SECTION 10. Stability and reactivity

10.1 Reactivity

The product is stable under normal conditions of use and storage.

10.2 Chemical stability

The product is stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions

There are no hazardous reactions.

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10.4 Conditions to avoid

Avoid contamination with other products.

10.5 Incompatible materials

May be corrosive to some metals. Keep substance away from: strong bases. reducing agents and oxidizing agents, against which it can ignite and generate toxic gases.

10.6 Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapors (phosphorus oxides).

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes significant inflammation with erythema, eschar or oedema formation.
Serious eye damage/irritation	: Causes of serious eye damage category 1, implied. Symptoms may include: tearing, redness of the eye tissue. Risk of serious permanent eye damage if the product is not removed quickly. pH < 3
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12. Ecological information

12.1 Toxicity

Relating to the substances	: Phosphoric acid
Effects on the environment	: Low polluting water (surface water). Little harmful to fish. May cause eutrophication. Toxic for plankton. Little harmful to bacteria. Little harmful to aquatic organisms. Causes a change in pH.
Ecotoxicity	: TLM fish 1: 138 mg/l (24/26 h in turbid water 22-24°C; Mosquito fish)

12.2 Persistence and degradability

While the acidity can be neutralized by the natural hardness of water, phosphate may persist indefinitely.

12.3 Bioaccumulative potential

Not applicable.

12.4 Mobility in soil

No data available.

Version : 1.1

EN (English)

Date of issue : 01/01/2018
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12.5 Results of PBT and vPvB assessment

Substance/mixture meets the criteria for PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

12.6 Other adverse effects

No adverse effects.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing authorized companies.

Recover if possible. Operate according to local or national regulations.

SECTION 14. Transport information

Requirements for transport of dangerous goods according to ADR,RID,ADN, IMDG, ICAO/IATA regulations

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
None	None	None	None	None
14.5. Environmental hazards				
None	None	None	None	None
No supplementary information available				

14.6 Special precautions for user

Ensure that the means of transport is clean before loading. Avoid the transport of any other material that could contaminate the product (see section 10). Avoid contact with a hot source.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

It is not intended to carry bulk.

SECTION 15. Regulatory information

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

15.1.1 EU Regulations

Contains no substances subject to restrictions in annex XVII of REACH.

15.1.2 National regulations

No additional information available.

15.2 Chemical safety assessment

The evaluation of chemical safety for this mixture has not been performed by the provider (annex XIV of REACH).

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SECTION 16. Other information

16.1 Indication of changes

Version	: 1.1
Date of revision	: 01 / 01 / 2018
Date of issue	: 01 / 01 / 2018
Replaces version	: 1.0
Indication of changes	: In accordance with Commission Regulation (EU) n°1907/2006 (REACH), Annex II, modified by regulation (EU) n°2015/830. - 1.3.1 Address of the manufacturer / supplier - 1.3.2.E-mail address of the person responsible for this SDS
Source	: ECHA Website http://echa.europa.eu/

16.2 Abbreviations and acronyms

ADN = European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
EC = European Community
EN = European Norm
EUH = European Hazard Statement
GHS = Globally Harmonised System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
MARPOL 73/78 = Marine Pollution, the International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978
PBT = Persistent, Bioaccumulative, Toxic
REACH = Registration, Evaluation and Autorisation of Chemicals
RID = Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
STEL = Short Term Exposure Limit
TWA = Time weighted Average
TLM = Tolerance Limit Median
vPvB = very Persistent, very Bioaccumulative.

16.3 Relevant R-phrases and/or H statements

H315 – Causes skin irritation.
H318 – Causes serious eye damage.
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/physician.
Eye Dam. 1 = Severe eye damage, category 1
Skin Corr. 1B = Corrosive/irritating to the skin 1B
Skin Irrit. 2 = Irritating to the skin, category 2
SU1 = User sector nr. 1: Agriculture, forestry, fishing.
GHS05 = Corrosive
EUH 401: To avoid risks to human health and the environment, comply with the instructions for use.

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16.4 Training advice

The staff handling this product, must be informed of the precautionary recommended measures and should have access to this information.

16.5 Further information

The information in this Safety Data Form is given in good faith and belief in its accuracy based on our knowledge of the substance/preparation concerned at the date of publication. It does not imply the acceptance of any legal liability or responsibility whatsoever by IBECO B.V. for the consequences of its use or misuse in any particular circumstances. In no case does this dispense the user of the product from compliance with all laws, decrees and regulations existing relative to the product and to health and hygiene and work safety standards. Drawn up according to the provisions of form EFMA (European Fertilizer Manufacturers' Association), and according to ECHA.