

PHOSTROGEN ALL PURPOSE LIQUID PLANT FOOD
86225668

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Creation Date: 15/07/2021
Revision Date: 15/07/2021
Version: 01 / GREAT BRITAIN

SECTION I: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name PHOSTROGEN ALL PURPOSE LIQUID PLANT FOOD
Product code 86601207 / 86601244
Market Authorization Number /

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

Use Fertiliser
REACH PC 12 (fertiliser)
NPK 6-4-5

1.3 Details of the supplier of the safety data sheet

Supplier SBM Life Science Ltd
Hyperion House
Fordham Road
Newmarket
Suffolk
CB8 7XN
GREAT BRITAIN
Phone number +44 (0)1223 677 611
Responsible Department Email: sds@sbm-company.com

1.4 Emergency telephone number

National Poisons Information Email : director.birmingham.unit@npis.org
Service (NPIS) : Website : <http://www.npis.org/>
UK Emergency telephone Number +44 (0)800 321 3079

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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Physical Hazards:

Not classified

Health and Safety Hazards :

Not classified

Environmental Hazards :

Not classified

2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Mixture without classification

Hazardous components which must be listed on the label : None

Pictograms of hazards : None

Signal word : None

Hazard statements : None

Precautionary statements :

- | | |
|------|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P270 | Do not eat, drink or smoke when using this product. |
| P264 | Wash hands thoroughly after handling. |
| P280 | Wear protective gloves. |

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Additional mentions : None

Additional labelling : None

2.3 Other hazards

The mixture contains substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0,1\%$ published by the European CHemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>.

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature

Liquid

Hazardous components

Hazard statements according to Regulation (EC) No. 1272/2008

| Ingredients | CAS Number/ EC Number/ Index Number | REACH Number / recording | Classification | Environmental Hazards | Conc % (w/w) |
|-------------|---|--------------------------------|----------------------------|--------------------------|-----------------|
| | | | Regulation 1272/2008/EC | | |
| Boric acid* | 10043-35-3 233-139-2 / | 01-2119486683- 25- | Repr. 1B, H360FD | / | 0,0 < x < 2,5 |

* Substance with a Community workplace exposure limit.

Further information

For full text of H-statements : see SECTION 16.

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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

| | |
|-----------------------|--|
| General advice | Equip yourself with the container, label or safety data sheet when you call an emergency number, poison center or doctor or if you consult for treatment. |
| Inhalation | Remove to fresh air and keep warm and at rest. If unconscious, place in recovery position and seek medical advice. |
| Eye contact | Rinse thoroughly with plenty of water, including under the eyelids for at least 15 minutes. Remove contact lenses and rinse thoroughly. Consult a physician if irritation persists. |
| Skin contact | Remove contaminated clothing. Wash off immediately with soap and plenty of water. Wash clothes before reuse. |
| Ingestion | Do not induce vomiting. Rinse out mouth and give water in small sips to drink. Never give anything by mouth to an unconscious person. |

4.2 Most important symptoms and effects, both acute and delayed

| | |
|-----------------|-------------------|
| Symptoms | No data available |
|-----------------|-------------------|

4.3 Indication of any immediate medical attention and special treatment needed

| | |
|-------------------|--|
| Hazards | No available data. |
| Treatments | Local treatment : symptomatic Systemic treatment : No antidote. Treat symptomatically |

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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

| | |
|-----------------|-------------------------------------|
| Suitable | - Water spray |
| | - Carbon dioxide (CO ₂) |
| | - Dry chemical |
| | - Alcohol resistant foam |

Unsuitable High volume water jet

5.2 Special hazards arising from the substance or mixture Burning may produce heavy smoke and gases. Do not breathe fumes.

5.3 Advice for firefighters

Special protective equipment for firefighters Wear self-contained breathing apparatus and wear suitable protective clothing.

Further information Remain upstream of the flames.
Cool closed containers exposed to fire with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Provide adequate ventilation.
Avoid contact with the skin, eyes and clothes.
Evacuate the danger zone and observe the emergency procedures.

For emergency responders Provide adequate ventilation.
Wear personal protection equipment.

6.2 Environmental precautions Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

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Version: 01 / GREAT BRITAIN**6.3 Methods and materials for containment and cleaning up**

| | |
|--|---|
| Methods for containment | Contain spillage and collect the product if it is possible. |
| Methods for cleaning up | Rapidly recover the product with absorbent material, organic, sand... Then collect it in a suitable container for elimination. Wash the affected area with water, then rinse. |
| Additional advice | Recycle where possible : the washings can be reused as a low grade fertiliser. |
| 6.4 Reference to other sections | Refer to sections 8 and 13 for personal protection. |

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

| | |
|--|---|
| Advice on safe handling | Avoid contact with skin, eyes and clothing. Use in ventilated areas. Avoid breathing spray. |
| Advice on protection against fire and explosion | No special protection recommended. |
| Hygiene measures | After handling, wash the hands before eating, drinking or smoking. Soiled clothing must remain in the working area and must be cleaned thoroughly before reusing. Do not eat, drink or smoke when using this product. |

7.2 Conditions for safe storage, including any incompatibilities

| | |
|--|---|
| Requirements for storage areas and containers | Keep tightly closed in a dry and cool place. Keep in a well-ventilated place, free from direct sunlight and frost. |
| Advice on common storage | Keep away from food, drink and animal feedingstuffs. Keep out of reach of children. |

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Suitable materials Store in original container.

7.3 Specific end use(s) Fertiliser.
Refer to the label and the conditions of use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No specific control parameters for the mixture.

For the substance :

Boric acid CAS 10043-35-3 OEL 8 hours = 2 mg/m³ (Ireland)

Further information:

Data for Boric acid CAS 10043-35-3 :

| | |
|-------------------------------|-----------|
| PNEC (Water) | |
| PNEC aqua (fresh water) : | 2,02 mg/l |
| PNEC aqua (marine) : | 2,02 mg/l |
| PNEC (STP) | |
| PNEC sewage treatment plant : | 10 mg/l |
| PNEC (Soil) | |
| PNEC soil : | 5,4 mg/kg |

8.2 Exposure controls

Appropriate engineering controls

Appropriate engineering controls Emergency eye wash fountains and emergency showers should be available in the immediate vicinity of the work stations.

Individual protective measures, such as personal protective equipment

All the measures for collective protection should be set and use before to consider the use of personal protective equipment. In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection None protection required when manipulated as recommended.
Used in a well ventilated area.

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| | |
|--|---|
| Hand protection | Avoid contact with the skin. In case of prolonged or repeated use, it is recommended to handle gloves (nitrile rubber, natural latex, PVC, butyl rubber) in conformity with standards EN 374 / EN 420. Protective gloves should be replaced at first signs of wear. Wash hands after handling. |
| Eye protection | Avoid contact with eyes. |
| Skin and body protection | Avoid contact with the skin. Wear appropriate clothing. In case of contact with the skin, wash thoroughly with water. Wash soiled clothes before reusing them. |
| Thermal protection | Not required. |
| Environmental exposure controls | |
| Environmental exposure controls | Avoid environmental contamination. Keep away from drains, surface and ground water. |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

| | |
|---|--------------------|
| Physical state | Fluid liquid |
| Colour | Not available |
| Odour | Not available |
| Melting point / freezing point | Data not available |
| Boiling point or initial boiling point and boiling range | Not relevant |
| Flammability | Not determined |
| Lower and upper explosion limit | Not determined |

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| | |
|--|--------------------|
| Flash Point | Data not available |
| Auto-ignition temperature | Not concerned |
| Decomposition temperature | Not relevant |
| pH | 3,26 – 4,46 |
| Kinematic viscosity | Not concerned |
| Solubility | Soluble in water |
| Partition coefficient n-octanol/water (log value) | Data not available |
| Vapour pressure | Data not available |
| Density and/or relative density | 1,093 - 1,127 |
| Relative vapour density | Not concerned |
| Particle characteristics | Data not available |

9.2 Other information

| | |
|---|----------------------|
| Information with regard to physical hazard classes | No other information |
| Explosive properties | Data not available |
| Oxidising properties | Data not available |
| Other safety characteristics | Data not available |

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity****Thermal decomposition** Stable under foreseeable conditions of uses and storage.

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| | |
|--|--|
| 10.2 Chemical stability | Stable under foreseeable pack and conditions of storage. |
| 10.3 Possibility of hazardous reactions | No data available. |
| 10.4 Conditions to avoid | Keep away from frost, high temperatures and direct sunlight. |
| 10.5 Incompatible materials | Store only in the original container. Keep away from strong acids, strong oxidizing agents. |
| 10.6 Hazardous decomposition products | No decomposition products expected under normal conditions of use. |

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

| | |
|------------------------------------|--|
| Acute oral toxicity | Specific data not available. Taking into account the available data, classification criteria have not been met. LD50 = 4 100 mg/kg – Rat – <i>Boric Acid</i> |
| Acute inhalation toxicity | Specific data not available. Taking into account the available data, classification criteria have not been met. LC50 = 2 mg/l – Rat, dust, mist – <i>Boric Acid</i> |
| Acute dermal toxicity | Specific data not available. Taking into account the available data, classification criteria have not been met. LD50 = 2 000 mg/kg – Rabbit – <i>Boric Acid</i> |
| Skin irritation / corrosion | Specific data not available. Taking into account the available data, classification criteria have not been met. |

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Serious eye damage / irritation Specific data not available.
Taking into account the available data, classification criteria have not been met.

Respiratory sensitisation Specific data not available.
Taking into account the available data, classification criteria have not been met.

Skin sensitisation Specific data not available.
Taking into account the available data, classification criteria have not been met.

Carcinogenicity:

Specific data not available.

Taking into account the available data, classification criteria have not been met.

Germ cell mutagenicity:

Specific data not available.

Taking into account the available data, classification criteria have not been met.

Reproductive toxicity and fertility:

Specific data not available.

Taking into account the available data, classification criteria have not been met.

Boric Acid : May damage fertility. May damage the unborn child.

Specific target organ toxicity:

Single Exposure:

Specific data not available.

Taking into account the available data, classification criteria have not been met.

Repeated Exposure:

Specific data not available.

Taking into account the available data, classification criteria have not been met.

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Aspiration hazard:

Specific data not available.

Taking into account the available data, classification criteria have not been met.

11.2 Information on other hazards

Endocrine disrupting properties

No other information available.

Other information

No other information available.

SECTION 12: ECOLOGICAL INFORMATION

No available data for the mixture.

12.1 Toxicity

| | |
|--|---|
| Toxicity to fish | LC50 = 74 mg/l <i>Limanda limanda</i> 96 h Boric Acid |
| Toxicity to aquatic invertebrates | EC50 = 133 mg/l <i>Daphnia magna</i> 48 h Boric Acid |
| Toxicity to aquatic plants | ECr50 = 24 mg/l <i>Scenedesmus subspicatus</i> 96 h Boric Acid |
| Toxicity for bees | No information available |
| Toxicity for earth-worms | No information available |
| Toxicity for birds | No information available |

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12.2 Persistence and degradability

| | |
|-------------------------|--|
| Biodegradability | No data available for the mixture. The substance Boric acid is considered as not degrading quickly. |
| Koc | No data available |

12.3 Bioaccumulative potential

| | |
|------------------------|-------------------|
| Bioaccumulation | No data available |
|------------------------|-------------------|

12.4 Mobility in soil

| | |
|-------------------------|-------------------|
| Mobility in soil | No data available |
|-------------------------|-------------------|

12.5 Results of PBT and vPvB assessment

| | |
|--------------------------------|---|
| PBT and vPvB assessment | Mixture does not contain PBT / vPvB substances. |
|--------------------------------|---|

12.6 Endocrine disrupting properties

| | |
|--|--------------------|
| Endocrine disrupting properties | Data not available |
|--|--------------------|

12.7 Other adverse effects

| | |
|--|--|
| Additional ecological information | No information available. See the label of the product for additional instructions concerning the precautions measures for the environment that have to be taken during the manipulation of the product. |
|--|--|

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

| | |
|---------------------|----------------------------------|
| Generalities | Recycle material where possible. |
|---------------------|----------------------------------|

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| | |
|-------------------------------|---|
| Product | The unused product can be diluted and recycled where possible, as a low-grade fertiliser. |
| Contaminated packaging | Rinse contaminated packaging with water. Dilute washings should be recycled where possible, possibly as a low-grade fertiliser. |

SECTION 14: TRANSPORT INFORMATION

No transport labelling required.

ADR/RID/ADN

| | |
|---------------------------------|---|
| 14.1 UN number | / |
| 14.2 Proper shipping name | / |
| 14.3 Transport hazard class(es) | / |
| 14.4 Packing group | / |
| 14.5 Environm. | / |
| Hazardous Mark | |

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

IMDG

| | |
|---------------------------------|---|
| 14.1 UN number | / |
| 14.2 Proper shipping name | / |
| 14.3 Transport hazard class(es) | / |
| 14.4 Packing group | / |
| 14.5 Marine pollutant | / |

IATA

| | |
|---------------------------------|---|
| 14.1 UN number | / |
| 14.2 Proper shipping name | / |
| 14.3 Transport hazard class(es) | / |
| 14.4 Packing group | / |
| 14.5 Environm. | / |
| Hazardous Mark | |

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14.6 Special precautions for user

Ensure that personnel knows the measures to be taken in the event of accidental release.

14.7 Maritime transport in bulk according to IMO instruments

No transport in bulk according to IBC Code.

SECTION 15: REGULATORY INFORMATION

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

Further information

Conformity with REACH annexes At the present time, the substances mentioned in section 3.2 of this SDS aren't quoted in :

- Annex XIV of REACH Regulation EC 1907/2006 about list of substances subject to authorization

Boric acid CAS 10043-35-3 is present in :

- Annex XVII of REACH Regulation EC 1907/2006 about restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

Specific provisions:

No data available.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required.

SECTION 16: OTHER INFORMATION

Text of the hazard statements (H sentences) mentioned in Sections 2 and 3:

H360FD May damage fertility. May damage the unborn child.

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Repr. 1B Reproductive toxicity, category 1B

Abbreviations and acronyms

| | |
|-----------|--|
| ADI | Acceptable Daily Intake |
| 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 |
| ARfD | Acute Reference Dose |
| A.S | Active Substance |
| ATE | Acute toxicity estimate |
| BCF | Bioconcentration Factor |
| CAS-Nr. | Chemical Abstracts Service number |
| CLP | Classification, Labelling, Packaging regulation |
| Conc. | Concentration |
| DMEL | Derived Minimal Effect Levels |
| DNEL | Derived No Effect Level |
| EC-No. | European community number |
| ECx | Effective concentration to x % |
| EINECS | European inventory of existing commercial substances |
| ELINCS | European list of notified chemical substances |
| EN | European Standard |
| EU | European Union |
| IATA | International Air Transport Association |
| IBC | International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code) |
| ICx | Inhibition concentration to x % |
| IMDG | International Maritime Dangerous Goods |
| Koc | Absorption Coefficient |
| LCx | Lethal concentration to x % |
| LDx | Lethal dose to x % |
| LOEC/LOEL | Lowest observed effect concentration/level |
| MARPOL | MARPOL: International Convention for the prevention of marine pollution from ships |
| NOEC/NOEL | No observed effect concentration/level |
| N.O.S. | Not otherwise specified |
| OECD | Organization for Economic Co-operation and Development |
| OSHA | Occupational Safety and Health Administration |
| PBT | Persistent, Bioaccumulative and Toxic substances |
| PNEC | Predicted No Effect Concentration |
| Pow | Partition coefficient: n-octanol / water |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| STOT | Specific Target Organ Toxicity |
| SVHC | Substance of Very High Concern |

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| | |
|------|--|
| TWA | Time weighted average |
| vPvB | Very Persistent and Very Bioaccumulative |
| UN | United Nations |
| WHO | World health organisation |

Methods used for classification:

Classification of the mixture Phostrogen All Purpose Liquid Plant Food was calculated according to the methods described in Regulation EC N° 1272/2008, with regard to the physical, environment and health hazards.

Further information:

None

Purpose of the reviewing:

This is the version 01 of the document. It corresponds to a creation.

It is in conformity with the modified Annex II of REACH Regulation EC 1907/2006 and with those of CLP Regulation EC 1272/2008.

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

Additional information:

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 2020/878 amending Regulation (EU) No 1907/2006 and any subsequent amendments. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge and the legislative and regulatory texts available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The information given in this data sheet have to be consider as a description of the requirements for the product and not consider as a guarantee or a quality specification concerning its properties. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.