

## 1 Identification of the substance or mixture and of the company/undertaking

### 1.1 Product identification

Product name : Ph minus bloom  
Product code : phmBl  
Product type : liquid  
Index number : 015-011-00-6  
EG number : 231-633-2  
Reach registration number : 01-2119485924-24  
Cas number : 7664-38-2  
Other means of identification : Phosphoric acid 59% ( H<sub>3</sub>PO<sub>4</sub> )

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

Recommended use : For use in agriculture and horticulture  
Uses advised against : Other unspecified industry. Due to the lack of related experience or data, the supplier cannot approve this use.

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

Name : Geni Investments BV  
Office address : Dennenburg 6  
Postal code and place : 3712 ED Huis ter heide ( holland )  
Email adres : [info@geni-investments.com](mailto:info@geni-investments.com)  
Web site : [www.geni-investments.com](http://www.geni-investments.com)  
tel : +31(0)343 77 83

### 1.4 Emergency telephone number

Name : National Poisoning Information Center  
Telephone nr : +31(0)302748888  
: Only intended to inform professional emergency services in case of acute poisoning  
Opening hours : 24 hours a day and 7 days a week

## 2 Hazard identification

### 2.1 Classification of the substance or mixture

Fabric with one component.

#### Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]

Classification : With.Corr.1 H290Skin Corr./Irrit.1A, H314

#### Classification according to Directive 67/548 / EEC [Dangerous Substances Directive]

Classification : C,R34 See Section 16 for the full text of the R or S phrases mentioned above.

: See section 11 for more information about health effects and symptoms.

## 2.2 Label components



Danger symbols

Signal word

: Danger

Hazard statements

: H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

### precautionary measures

Prevention

: P260 Do not breathe dust / fume / gas / mist / vapors / spray.

: P280 Wear protective gloves / protective clothing / eye protection / face protection

Reaction

: P301 + P330 + P331 IF SWALLOWED: rinse mouth - DO NOT induce vomiting.

P304 + P340 IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: rinse gently with water for several minutes; remove contact lenses if possible; keep rinsing.

P310 Immediately call a POISON CENTER or doctor / consult

EU regulatory (EC) Nr. 1907/2006 (REACH)

: Does not apply

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

## Special packaging requirements

Containers from a childproof closure must be provided.

: Does not apply.

Sensible hazard indication.

: Does not apply.

## 2.3 Further hazards

Substance meets the criteria for PBT

: Does not apply.

according to Regulation (EC) No.

1907/2006, Annex XIII

Substance meets the criteria for vPvB

: Does not apply.

according to Regulation (EC) No.

1907/2006, Annex XIII

Other hazards that do not result in classification. : Attacks many metals that release highly flammable hydrogen gas that can form an explosive mixture in combination with air.

## 3 Composition and information on ingredients.

Substance / preparation.	: Fabric with one component.
Product / ingredient name.	: Phosphoric acid 59% (H <sub>3</sub> PO <sub>4</sub> )
identification options.	
RRN.	: 01-2119485924-24
EG.	: 231- 633-2
CAS number.	: 7664-38-2
Index.	: 015-011-00-6

### Classification.

67/548/EEG. : C; R34

67/548/EEG Regulation (EC) No 1272/2008 [CLP]. : skin Corr./Irrit. I B H314, With. Corr. I H290.

Type :

[A] Type [A] Component [B] Impurity [C] Stabilizing additive See Section 16 for the full text of the R or S phrases declared above. There are no additional ingredients present that, as far as is known to the supplier and in the applicable concentrations, are classified as harmful to health or the environment and must therefore be listed in this section.

## 4 First Aid measures

### 4.1 Description of the First Aid measures

If in doubt, always consult a doctor

**Eye contact** :  
Immediately flush eyes with running water for at least 15 minutes while keeping the eyelids open. Consult a doctor immediately

**Inhalation**  
In case of inhalation, remove to fresh air. If the patient is not breathing, is breathing irregularly, or if respiratory arrest is occurring, artificial respiration or oxygen should be given by trained personnel. Consult a doctor immediately.

**Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes, wash with soap and water, removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Consult a doctor immediately.

**Ingestion** : If large quantities of this material are swallowed, seek medical advice immediately. Do not induce vomiting unless medical personnel indicate that this is necessary. Never give anything by mouth to an unconscious person

**Protection of first aid workers** : No action may be taken if there is a risk of personal accidents or in case of insufficient training. If it is suspected that vapors are still present, the rescue worker must wear a suitable mask or independent breathing apparatus. This can be dangerous for those who use mouth-to-mouth respiration. Wash contaminated clothing thoroughly with water before removing it or wear gloves.

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

#### Potential acute effects for human health:

Eye contact : Causes serious eye damage

**Ingestion** :  
Vapor causes serious irritation to eyes and respiratory tract. May cause irritation to eyes, nose, mouth and throat. Exposure to decomposition products may cause a health hazard. After exposure, serious consequences with delay may occur.

#### Signs/symptoms of excessive exposure:

Eye contact : Unwanted symptoms can include the following: pain, tears, red heath

Inhalation : no typical symptoms and effects are known

Skin contact : Adverse symptoms may include the following: pain or irritation, redness, blistering may occur

Ingestion : Adverse symptoms may include the following: stomach pains  
Adverse symptoms may include the following: stomach pains

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

Remarks for doctor : Treat symptomatically. Contact a specialist immediately for treatment of poisoning if Large quantities have been ingested or inhaled

Specific treatments : No specific treatment.

## 5 Fire-fighting measures

## 5.1 Extinguishing agents

Suitable extinguishing agents : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing agents : None identified

## 5.2 Particular hazards arising from the substance or mixture

**Risks of the substance or mixture.** : In a fire or when heated, the pressure increases and the container may burst.

**Hazardous thermal decomposition products** : Decomposition products may include the following: phosphorus oxides. Avoid breathing dust particles, vapors or exhalations of burning material. In case of inhalation of decomposition products in a fire, symptoms may be delayed.

## 5.3 Advice for firefighters

**Special precautions for firefighters** :

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action may be taken if there is a risk of personal accidents or in case of insufficient training.

**Special protective equipment for firefighters.** :

Firefighters should wear suitable clothing and an independent respirator (SCBA) that has a full face part and works with an overpressure mode. Clothing for firefighters (including helmets, protective boots and gloves), in accordance with European standard EN 469, provides a basic level of protection for incidents with chemical substances.

**Extra information** : Not available



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## 6 Measures in the event of accidental release of the substance or mixture

### 6.1 Personal precautions, protective equipment and emergency procedures

**For persons other than the emergency services.** : No action may be taken if there is a risk of personal accidents or in case of insufficient training. Evacuate surrounding areas. Ensure that unprotected and superfluous personnel do not enter. Do not touch or walk through spilled material. Do not breathe vapor or fog. Ensure adequate ventilation. Wear suitable respiratory equipment if there is insufficient ventilation. Wear suitable personal protective equipment.

**For the emergency services.** :

If special clothing is required for handling the spilled product, also read any information in Section 8 about suitable and unsuitable materials. See also the information under the heading "For persons other than the emergency services".

### 6.2 Environmental precautions

Avoid spreading spilled material and waste material and prevent it from coming into contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air)

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

**Small spill :**

Stop leak if without risk. Remove containers from the area that has been spilled. Dilute with water and mop up if water-soluble. Have it removed by a licensed waste processing company. If this product dries out, it can cause a fire hazard. Avoid absorption in sawdust or other combustible material. 6.4 Reference to other sections

**Large spill :** Stop leak if without risk. Remove containers from the area that has been spilled. Approach the emissions with the wind in your back. Avoid access to sewers, waterways, basements or closed spaces. Dispose of leaked material to a waste water treatment plant or act as follows. Absorb spilled preparation with non-combustible absorbent materials such as sand, earth, vermiculite or diatomaceous earth and dispose of in a disposal container in accordance with local regulations. Have it removed by a licensed waste processing company. Contaminated absorbent material can entail the same risks as the spilled product.

## 6.4 Reference to other sections.

See Section 1 for emergency contact information.

See Section 8 for information on suitable personal protective equipment.

See Section 13 for additional information about waste treatment.

## 7 Handling and storage

The information in this section contains general advice and guidelines. The list of Recommended uses in Section 1 should be consulted for any available use specific information provided in the Exposure Scenario (s).

### 7.1 Precautions for safe handling of the substance or mixture

#### Protective measures.

Put on appropriate personal protective equipment (see Section 8). Do not allow the product to get into the eyes or on skin or clothing. Do not breathe vapor or fog. Do not take. If the material is hazardous to the respiratory tract under normal use, it should only be used with either adequate ventilation or suitable respiratory equipment. Store in the original package or in an approved alternative made from compatible material; Keep tightly closed when not in use. Keep separated from basic substances. Empty packaging contains residual product and can be dangerous. Do not reuse barrel. Spilled product must be cleaned up immediately to prevent damage to surrounding materials.

### 7.2 Conditions for safe storage, including any incompatibility of products

**Recommendations** : Store in accordance with local regulations. Store in original packaging, protected from direct sunlight, in a dry, cool, well-ventilated place, away from material with which contact should be avoided (see section 10) and food and drink. Store in a corrosion-resistant container with a corrosion-resistant inner liner. Keep locked up. Keep the container tightly closed and sealed until use. Opened packages must be carefully resealed and kept upright to prevent leakage. Do not store in packages without a label. Take appropriate measures to prevent release into the environment. Install a dam around storage facilities to prevent soil and water pollution in the event of spillage.

### 7.3 Specific end use

Recommendation. : Not available.

Solutions specific to the industrial sector. : Not available.

## 8 Exposure controls/personal protection.

The information in this section contains general advice and guidelines. The list of Recommended uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario (s)

### 8.1 Control parameters

#### Occupational exposure limits

Product / ingredient name : Phosphoric acid 59% (H<sub>3</sub>PO<sub>4</sub>).

Exposure limit values

: MinSZW Legal Limit Values (2007-01-01) MAC value TGG 8 hours 1 mg / m<sup>3</sup> MinSZW Legal Limit Values (2007-01-01) MAC value TGG 15 min. 2 mg / m<sup>3</sup> EU OEL (2000-06-01) MAC value TGG 8 hours 1 mg / m<sup>3</sup> EU OEL (2000-06-01) MAC value TGG 15 minutes 2 mg / m<sup>3</sup> 38.2 Exposure control measures

#### DNEL's/DMEL's

type. : DNEL

Exposure. : Long Term Inhalation

Value. : 2.92 mg / m<sup>3</sup> ( Employees ) / 0.73 mg / m<sup>3</sup> ( Consumers )

Effects. : Systemic

### 8.2 Exposure controls

Suitable technical control measures:

If dust, smoke, gas, vapor or mist is generated by the user's actions, use a closed installation, local exhaust, or other technical means of control to keep occupational exposure below all recommended or legal limits.

## Individual protection measures.

**Hygiene measures** : There must be a washing facility or water for cleaning eyes and skin must be present.

**Eye / face protection** : Where a risk analysis indicates that this is necessary to avoid exposure to splashes, mists, gases or dusts, eye protection must be worn that meets an approved standard. Recommended: face shield Tight fitting safety glasses  
CEN: EN166.

### Skin protection

**Hand protection** : When a risk analysis indicates that this is necessary, impermeable gloves must be worn when handling chemical products that are resistant to chemicals and that comply with an approved standard. > 8 hours (breakthrough time): butyl rubber, natural rubber (latex), neoprene, nitrile rubber, PVC, Viton.

**Body protection** : Personal protective equipment must be selected based on the task being performed and the associated risks. Recommended: Protective clothing.

**Other skin protection.** : Suitable footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and approved by an expert prior to using this product.

**Respiratory protection** : When a risk analysis indicates that this is necessary, you must use a well-fitting, air-purifying or air-breathing respirator that meets an approved standard. The selection of a mask should be based on expected exposure limits, the hazards of the product and the limits for safe working of the mask type. Recommended: acid gas filter (type E) self-contained breathing apparatus (SCBA) Filter P2SL (EN 143, 140).

**Control of environmental exposure** : Emissions from ventilation or processing equipment must be checked to ensure that it meets the requirements of environmental protection legislation. In some cases, gas washers, filters or technical modifications to the process equipment are required to reduce emissions to an acceptable level.

## 9 Physical and chemical properties.

### 9.1 Information on basic physical and chemical properties.

Physical state.	: liquid (Clear, viscous liquid.)
Color	: Colorless.
smell	: Odorless.
Odor threshold	: Odor threshold
pH	: < 3
Melting point / freezing point	: < -10 °C
Initial boiling point and boiling range	: 135 - 158 °C
Evaporation rate	: Not quite
Flammability (solid, gas)	: Not flammable
Burning time	: Not quite
Burning speed	: Not quite
Upper / lower flammability or explosion limits	: Below: Not determined
Vapor pressure	: Above: Not determined
Vapor density	: Not quite
Relative density	: Not quite
Bulk density	: Not quite
Density	: 1,42 g cm <sup>3</sup>
Miscibility with water	: Miscible with water.
Octanol / water partition coefficient	: Not quite
Auto-ignition temperature	: Not quite
Viscosity	: Dynamic: Not determined. Kinematic: Not determined
Explosive properties	: No
Oxidizing properties	: No

### 9.2 Other information

No additional information.



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## 10 Stability and reactivity

### 10.1 Reactivity

May be corrosive to metals. Expert assessment

### 10.2 Chemical stability

The product is stable

### 10.3 Possible hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Circumstances to avoid

No specific data

### 10.5 Chemically interacting materials

Reactive or incompatible with the following materials: metals

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous waste products are normally not formed.

## 11 Toxicological data

### 11.1 Information on toxicological effects

#### **Acute toxicity**

Product / ingredient name	: phosphoric acid
result	: LD50 Oral.
Species	: Rat
Dose	: 2,600 mg/kg 423 Acute Oral toxicity - Acute Toxic Class Method.
Exposure	: IUCLID5

Conclusion/Summary : Significant effects or critical hazards are not known.

#### **Irritation / corrosion**

Conclusion/Summary

skin	: Corrosive to the skin.
eyes	: Corrosive to the eyes.
Breathing	: May be irritating to respiratory system.

#### **Hypersensitivity.**

Conclusion/Summary.

Skin	: Corrosive to the skin
Breathing	:

No data is available for this endpoint, therefore this classification is not considered to be applicable.

#### **Mutagenicity.**

Conclusion/Summary. : No mutagenic effects.

#### **Carcinogenicity.**

Conclusion/Summary. : No carcinogenic effects.

## Reproductive toxicity.

Product / ingredient name	: phosphoric acid
Fertility	: Negative.
Species	: Rat
Dose	: Oral:> 500 mg / kg bw / day OECD 422
exposure	: 54 days
References	: IUCLID5

Product / ingredient name	: phosphoric acid
Maternal toxicity	: Negative
Developmental toxin	: Negative
Species	: Rat
Dosis	: Oral:> 410 mg / kg bw / day OECD
exposure	: 10 days
References	: IUCLID5

Product / ingredient name	: phosphoric acid
Maternal toxicity	: Negative
Developmental toxin	: Negative
Species	: mouse
Dosis	: Oral:> 370 mg / kg bw / day OECD 414
exposure	: 10 days
References	: IUCLID5.

## 12 Ecological data

### 12.1 Toxicity

### 12.2 Persistence and degradability

### 12.3 Bioaccumulation

### 12.4 Mobility in soil

### 12.5 Results of PBT and vPvB assessment

### 12.6 Other harmful effects



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## 13 Instructions for disposal

### 13.1 Waste treatment methods for product



## 14 Information relating to transport

### Provisions: ADR/RID



- 14.1** VN- number : 1805
- 14.2** Proper shipping name in accordance with the model regulations of the UN. : Phosphoric acid 59% (H<sub>3</sub>PO<sub>4</sub>)
- 14.3** Transport hazard class (es).

### Regulation: IMDG

- 14.1** UN number : 1805
- 14.2** UN proper shipping name : Phosphoric acid 59% (H<sub>3</sub>PO<sub>4</sub>)
- 14.3** Transport hazard class(es)



### Regulation: IATA

- 14.1** UN number : 1805
- 14.2** UN proper shipping name : Phosphoric acid 59% (H<sub>3</sub>PO<sub>4</sub>)
- 14.3** Transport hazard class(es)



## 15 Regulations

### 15.1 Health, safety and environmental regulations/legislation specific to the substance or mixture

#### Other EU regulations

### 15.2 Chemical safety assessment

## 16 Other information

### Full text of abbreviated H sentences

H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.

### Compiled by

Geni Investmenst B.V.

### Notification to the reader

To the best of our knowledge, the information contained in this Overview of safety Measures is correct until the date of publication. This information is given to safety advice, and only relates to the products and use specifically as described. This information regarding a product will not necessarily be applicable when this product is used with

(a) other product(s) or when the product is applied in a different way than described, because all products can present unknown risks and with caution must be used. Only the user is responsible for the decision regarding the suitability of the product.



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