

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

### 1.1 Product identifier

Product name	: PH Down Bloom
Index number	: 015-011-00-6
EC number	: 231-633-2
REACH Registration number	: 01-2119485924-24
CAS number	: 7664-38-2
Product code	: PhmBl
Product type	: Liquid pH corrector
Other means of identification	: Phosphoric acid 59% (H3PO4)

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

Identified uses	: For use in agriculture and horticulture
Uses advised against	: Other non-specified industry. Due to the lack of related experience or information, the supplier cannot approve such use.

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

Name	: Ferro
visiting address	: De Heinen 20
Postal code and city	: 5371 MJ Ravenstein
mailing address	: PO Box 12
Postal code and city	: 5373 ZG Herpen
Country	: Netherlands
Telephone number	: +31 486 416959
Fax no.	: +31 486 416962
E-Mail-Adresse	: info@ferro.nu
Website	: www.ferro.nu

### 1.4 Emergency telephone number

Name	: National Chemical Emergency Centre
Telephone number	: +44 (0) 1865 407333
Hours of operation	: 24 h / 24 h

## 2 Hazards identification

### 2.1 Classification of the substance or mixture

Product definition	: Mono-constituent substance
<b><u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u></b>	:
Classification	: Met. Corr.1, H290 Skin Corr./Irrit. 1B, H314
<b><u>Classification according to Directive 67/548/EEC [DSD]</u></b>	:
Classification	: C, R34 Zie Rubriek 16 voor de volledige tekst van de R- of S-zinnen die hierboven staan vermeld. Zie rubriek 11 voor meer informatie over gezondheidseffecten en symptomen.

### 2.2 Label elements

Hazard pictograms	: 
Signal wort	: Danger

Hazard statements : H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.

**Precautionary statements**

Prevention : P260 Do not breathe dust / fume/gas/mist/vapours/spray.  
P280 Wear protective gloves / protective clothing/eye protection/face protection.

Response : 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 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.

EU Regulation (EC) No. 1907/2006 (REACH) Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

**Special packaging requirements**

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable

**2.3 Other hazards**

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII : Not applicable

Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : Not applicable

Other hazards which do not result in classification : Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air.

**3 Composition/information on ingredients**

Substance/mixture : Mono-constituent substance

Product / ingredient name : Phosphoric acid 59% (H3PO4)

Identifiers

RRN: : 01-2119485924-24

EC: : 231-633-2

CAS: : 7664-38-2

Index: : 015-011-00-6

% : >=50 - <65

Classification

67/548/EEG : C; R34

Regulation (EC) No. 1272/2008 [CLP] : Skin Corr./Irrit. 1B H314 Met. Corr. 1 H290

Type : [A]

Type [A] Constituent [B] Impurity [C] Stabilizing additive  
 See Section 16 for the full text of the R phrases or H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

## 4 First aid measures

### 4.1 Description of first aid measures

- Eye contact : Immediately flush eyes with plenty of water for at least 15 minutes, keeping eyelids open. Get medical attention immediately.
- Inhalation : If inhaled, remove to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately.
- Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes, wash with water and soap while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Ingestion : If large quantities of this material are swallowed, call a physician immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. 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 health effects**

- Eye contact : Causes serious eye damage.
- Inhalation : Vapor is strongly irritating to the eyes and respiratory system. Can irritate eyes, nose, mouth and throat. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact : Causes severe burns.
- Ingestion : May cause burns to mouth, throat and stomach.

#### **Over-exposure signs/symptoms**

- Eye contact : Adverse symptoms may include the following: pain, watering, redness.
- Inhalation : No typical symptoms and effects known
- Skin contact : Adverse symptoms may include the following: pain or irritation redness blistering may occur

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

- Notes to physician : Treat symptomatically. Immediately contact a specialist for treatment of poisoning if large quantities have been ingested or inhaled.
- Specific treatments : No specific treatment.

## 5 Firefighting measures

### 5.1 Extinguishing media

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

### 5.2 Special hazards arising from the substance or mixture

### 5.3 Advice for firefighters

## 6 Accidental release measures

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

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and 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 materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Dispose of via a licensed waste disposal contractor. It may lead to a fire risk when it dries out. Do not absorb in sawdust or other combustible material.

### 6.4 Reference to other sections

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## 7 Handling and storage

The information in this section contains generic advice and guidance. The list of Identified 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

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container. Spillages should be cleaned up promptly to avoid damage to surrounding materials.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Recommendations : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Store in corrosive resistant container with a resistant inner liner. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Bund storage facilities to prevent soil and water pollution in the event of spillage.

### 7.3 Specific end use(s)

Industrial sector specific solutions : Not available.

## 8 Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified 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>)

### 8.2 Exposure controls

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : Liquid

### 9.2 Other Information

pH : <1.0

## 10 Stability and reactivity

### 10.1 Reactivity

### 10.2 Chemical stability

The product is stable.

### 10.3 Possibility of hazardous reactions

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

### 10.4 Conditions to avoid

### 10.5 Incompatible materials

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11 Toxicological information

### 11.1 Information on toxicological effects

#### Irritation/Corrosion

Conclusion/Summary :  
Respiratory : May be irritating to the respiratory system.

## 12 Ecological information

### 12.1 Toxicity

**12.2 Persistence and degradability**

**12.3 Bioaccumulative potential**

**12.4 Mobility in soil**

Soil/water partition coefficient (KOC) : Not available.

**12.5 Results of PBT and vPvB assessment**

PBT : Not available.

**12.6 Other adverse effects**

**13 Disposal considerations**

**13.1 Waste treatment methods Product**

**14 Transport information**

**Regulation: ADR/RID**

14.1 UN-Nummer : 1805  
 14.2 UN proper shipping name : Phosphoric acid 59% (H3PO4)  
 14.3 Transport hazard class(es) :



**Regulation: ADN**

14.1 UN number : 1805  
 14.2 UN proper shipping name : Phosphoric acid 59% (H3PO4)  
 14.3 Transport hazard class(es) :



**Regulation: IMDG**

14.1 UN number : 1805  
 14.2 UN proper shipping name : Phosphoric acid 59% (H3PO4)  
 14.3 Transport hazard class(es) :



**Regulation: IATA**

14.1 UN number : 1805  
 14.2 UN proper shipping name : Phosphoric acid 59% (H3PO4)  
 14.3 Transport hazard class(es) :



**15 Regulatory information**

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

**15.2 chemical Safety Assessment**

**16 Other information**

**Full text of abbreviated H statements**

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

**Prepared by**



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Ferro

**Notice to reader**

The information in this safety data sheet is most correct and complete to our present knowledge and is given in good faith but without warranty. It remains the responsibility of the user to make sure that the information is appropriate and complete for his specific use of the product. Ferro accepts no liability for damage or loss resulting from the use of this information.