

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

### 1.1 Product identifier

Product name : Standard Bloom A  
Product code : StBIA  
Product type : liquid

### 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 can not 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 is not classified as dangerous according to EC Directives

### 2.2 Label elements

none

### 2.3 Other hazards

Based on the present state of our knowledge the industrial use of the product is of no danger to humans and the environment.

## 3 Composition/information on ingredients

### NPK

NPK-composition in percentages by weight

Nitrogen total - N-tot	2,8%
<i>Nitrate - NO<sub>3</sub>-N</i>	2,3%
<i>ammonium - NH<sub>4</sub>-N</i>	0,5%
calcium Oxide - CaO (water-soluble)	3,3%
magnesium Oxide - MgO (water-soluble)	0,9%

### Trace elements

Trace elements	
Iron (Fe)	0,028%
Manganese (Mn)	0,011%
Zinc (Zn)	0,007%
Boron (B)	0,007%
Copper (Cu)	0,001%

Molybdenum (Mo)	0,002%
Properties	
specific weight	1,102 g/cm <sup>3</sup>

## 4 First aid measures

### 4.1 Description of first aid measures

When in doubt, always consult a doctor

Eye contact	:	First rinse with plenty of water (for at least 15 minutes), also under the eyelids. Consult a physician.
Inhalation	:	Move the victim to fresh air
Skin contact	:	Remove affected clothing and wash exposed skin area with mild soap and water, then rinse with warm water.
Ingestion	:	If swallowed, immediately drink plenty of water (about 500 ml) drink and consult a doctor. Warning - never induce vomiting. Consult a physician.

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

<u>Potential acute health effects</u>	:	
Eye contact	:	irritating to eyes
Inhalation	:	No typical symptoms and effects known
Skin contact	:	No typical symptoms and effects known
Ingestion	:	No typical symptoms and effects known
<u>Over-exposure signs/symptoms</u>	:	
Eye contact	:	No typical symptoms and effects known (if the eyes are rinsed with water)
Inhalation	:	No typical symptoms and effects known
Skin contact	:	No typical symptoms and effects known
Ingestion	:	No typical symptoms and effects known

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

Notes to physician	:	NPK solution, pH 1.0 - 4.5
Specific treatments	:	No additional information is available

## 5 Firefighting measures

### 5.1 Extinguishing media

Product is not flammable	
Suitable extinguishing media	: All extinguishing media allowed
Unsuitable extinguishing media	: not known

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

not determined

### 5.3 Advice for firefighters

Special protective equipment for fire-fighters	:	S36: Wear suitable protective clothing. Use breathing apparatus.
Additional information	:	not known

## 6 Accidental release measures

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

Avoid contact with eyes, wear protective clothing, gloves and eye protection.

### 6.2 Environmental precautions

Product may not be distributed in the environment. Carefully drain the spilled product.

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

Dilute with plenty of water.

- 6.4 Reference to other sections  
See section 8 and 13.

## 7 Handling and storage

- 7.1 Precautions for safe handling  
The usual precautions for handling chemicals should be taken into consideration  
Protective measures : Wear personal protective equipment.
- 7.2 Conditions for safe storage, including any incompatibilities  
Recommendations : Store in original container.  
Store in a dry, well-ventilated area.
- 7.3 Specific end use(s)  
Recommendations : For professional use, no special measures are necessary

## 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  
Exposure Limits for this product are not known.
- 8.2 Exposure controls  
The usual precautions for handling chemicals should be applied. Avoid long contact with skin.

## 9 Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- |                              |                                                       |
|------------------------------|-------------------------------------------------------|
| Physical state               | : liquid                                              |
| Color                        | : A - Red, B = transparent, Single component = Red    |
| Odor                         | : none                                                |
| pH                           | : 1,0 - 4,5 (depending on the composition)            |
| Melting point/freezing point | : <12 degrees Celsius, (depending on the composition) |
| Flash point                  | : Undetermined                                        |
- 9.2 Other Information
- Soluble in water
  - Mixture is corrosive to metals

## 10 Stability and reactivity

- 10.1 Reactivity  
No dangerous reactions known under normal conditions
- 10.2 Chemical stability  
The product is stable under normal conditions.
- 10.3 Possibility of hazardous reactions  
No dangerous reactions known under normal conditions
- 10.4 Conditions to avoid  
No specific recommendations
- 10.5 Incompatible materials  
Not known
- 10.6 Hazardous decomposition products  
Contact with bases can release toxic Ammoniac vapours.

## 11 Toxicological information

### 11.1 Information on toxicological effects

No information available

Acute toxicity :  
Conclusion/Summary : not toxic

## 12 Ecological information

### 12.1 Toxicity

Conclusion/Summary : not toxic

### 12.2 Persistence and degradability

not known

### 12.3 Bioaccumulative potential

not known

### 12.4 Mobility in soil

not known

### 12.5 Results of PBT and vPvB assessment

not known

### 12.6 Other adverse effects

not known

## 13 Disposal considerations

### 13.1 Waste treatment methods Product

Methods of disposal : Dispose in accordance with local regulations.  
Packaging : Rinse with water. Contact your supplier / producer for recycling.

## 14 Transport information

Accordance with the applicable transport regulations, the product is not classified as a dangerous product.

Regulation: ADR/RID

Accordance with the applicable transport regulations, the product is not classified as a dangerous product.

Regulation: ADN

Accordance with the applicable transport regulations, the product is not classified as a dangerous product.

Regulation: IMDG

Accordance with the applicable transport regulations, the product is not classified as a dangerous product.

Regulation: IATA

Accordance with the applicable transport regulations, the product is not classified as a dangerous product.

## 15 Regulatory information

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

Other EU regulations : Labelling according to EC regulations

### 15.2 chemical Safety Assessment

Labelling according to EC Directives

## 16 Other information

Full text of classifications [CLP/GHS]

none

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Full text of classifications [DSD/DPD]

none

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Prepared by

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.