



ESTABLECIMIENTOS HEFE, SL
Carretera Rota - Chipiona, Km. 5
11520 Rota- Cadiz - España
Tlfno: +34 955 873403 Móvil: +34 652 052289

MATERIAL SAFETY DATA SHEET

1.- Product identification and company

Product Name: HEFE PH QUATRO

Company: ESTABLECIMIENTOS HEFE, SL

Ctra. Rota - Chipiona (A-491), Km. 5

11520 Rota, Cádiz - Spain

Phone: +34 955 873403

Relevant identified uses of the substance: Fertilizer used in agriculture

2.- Composition: component information

Total Nitrogen (N) **4,50% w/w**

Total Phosphorous (P_2O_5) **16,00% w/w**

3.- Hazards Identification

3.1. Health

3.1.1. Inhalation: No known adverse effects.

3.1.2. Skin Contact: Prolonged contact may cause mild irritation.

3.1.3. Eye Contact: May cause eye irritation.

3.1.4. Ingestion: There may be stomach and intestinal disorders.

3.2. *Environmental*: No known adverse environmental effects.

4.- First Aid

4.1. Inhalation: It is recommended to remove the person to an area of fresh air.

4.2. Skin contact: Wash skin with soap and water for 15-20 minutes.

4.3. Eye contact: If in eyes, rinse immediately under running water spray for at least 20 minutes.

4.4. Ingestion: Immediately rinse mouth with water. Do not induce vomiting. Give drink lots of water.

4.5. Antidote: No specific antidote. Treat the patient symptomatically.

5.- Fire-fighting measures

5.1. *Extinguishing Media*: Dry chemical (ABC PQS), CO_2 , foam or water applied as mist.

5.2. *Special procedures for fire fighting*:

5.2.1. Approach always downwind.

5.2.2. Remove containers from fire area if without some risk.

5.2.3. Make a dam to contain the water used in fire control for subsequent safe disposal.

5.3. *Personal protective equipment for fire fighting*:

5.3.1. Use personal protective equipment suitable for such situations (structural fire suit).

5.3.2. Wear protective positive pressure breathing apparatus (SCBA).

5.3.3. NIOSH approved respirator or OSHA

6.- Measures to be taken in case of accidental spillage

6.1. *Emergency measures to be taken if material is spilled*:

6.1.1. Contain and collect spilled material with shovel or sweep thoroughly.

6.1.2. Remove the cleaning material and place in a closed metal cylinder and keep it until later disposal.



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6.2. Personal protective measures to tackle the emergency:

6.2.1. Use personal protective equipment (gloves, boots, face shield and protective apron.)

6.3. Precautions to avoid damage to the environment:

6.3.1. Do not escape into the pipeline systems of surface water or groundwater.

7.- Handling and Storage

7.1. Handling:

7.1.1. Wear protective clothing and rubber gloves when handling, mixing and application.

7.1.2. Do not eat, smoke or drink during handling and application.

7.1.3. No open containers in his mouth.

7.2. Storage:

7.2.1. Store in original containers, sealed and labeled in dry and ventilated.

7.2.2. Store locked up and away from food, medicine, grain, seed, feed and clothing.

7.2.3. Keep away from heat and hot areas.

8.- Exposure Controls / Personal Protection

8.1. Measures to reduce the possibility of exposure: It should be noted the security measures for handling chemicals.

8.2. Eye Protection: Safety goggles required all the time.

8.3. Hand Protection: Nitrile rubber gloves, over 0.11 mm thickness, > 480 min breakthrough time.

8.4. Respiratory Protection: Dust mask if necessary, i.e. in case of dust emission or dusty environments.

8.5. Special precautions:

8.5.1. Avoid contact with eyes and skin.

8.5.2. Wash thoroughly after handling and before eating, drinking and / or smoking.

8.5.3. Remove contaminated clothing and wash before reuse

9.- Physical and chemical properties

9.1. Appearance / color: Soluble Liquid / intense red

9.2. Density: 1,122 g/ml

9.3. Solubility: 100% soluble in water

9.4. pH product: acid

10.- Stability and Reactivity

10.1 Stability

10.1.1 Stable under normal storage conditions.

10.2. Conditions to avoid

10.2.1. Avoid exposure to extreme temperatures over 40 ° C, flame, moisture.

10.2.2. Avoid keeping close to sources of ignition. No smoking.

10.3. Hazardous Combustion Products: None known.

11.- Toxicological Information

11.1. Water oral DL₅₀ in rats: Not available

11.2. Acute dermal DL₅₀ in rabbits: Not available

11.3. Eye irritation (rabbit): Not available

11.4. Skin irritation (rabbit): Not available



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12.- Information ecology

The product is not dangerous for the environment. Ecotoxicological classification is not appropriate, given its nature and application form.

13.- Disposal considerations

13.1. *Methods of disposal of waste product*

13.1.1. In cases where large quantities of product no longer used, establish a possible use of the material (if will shoulder, consult the manufacturer / distributor).

13.1.2. Small amounts of product and empty containers should be packed and sealed, labeled and transferred to an incinerator is available, according to local regulations.

13.2. *Disposal of contaminated containers*

13.2.1. The packaging must be completely empty for disposal.

13.2.2. After using the content, destroy or puncture empty containers to prevent reuse.

13.2.3. Dispose of the sites earmarked by local authorities for this purpose.

14.- Transport Information

No restriction for transportation both by land, river / lake, sea or air.

No classified as dangerous goods.

15.- Regulatory Information

Product is not affected by the hazardous material description. However, you must observe the usual safety precautions when handling the product.

S2: Keep out of reach of children.

S13: Keep away from food, drinks and things related to food animals.

S20: Do not eat or smoke during use

16.- Other Information

16.1. Product Type: **HEFE PH QUATRO** is a triple action product. REGULATES THE PH OF THE SOLUTION, SURFACTANT EFFECT, ANTIFOAM. SYSTEM CONTAINS A Ph VALUE INDICATOR

16.2. Recommended Uses: Ph regulators stabilize Soil pH, giving enhance soil properties and high crop yields and fertility. It always depends on the nutrition requirements - crop may not be able to grow under extreme pH conditions.

The information in this document is not an implied warranty of specific properties.

The information is intended to provide some general recommendations with regard to health and safety based upon our knowledge of the handling, storage and use of the product. Not applicable to unusual or non-specific use of the product, or when instructions are not followed or recommendations. Determine the conditions of safe use of the product are an obligation of the user.