

**MINEA FERRONET**

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**1.- Preparation and company identification**

*Preparation identification:*  
MINEA FERRONET

*Company identification:*  
MINEA QUIMICA S.L.  
Pol. Ind. "Mas Xirgu" C/ Can Pau Birol, 1  
17005 Girona Tel.: 972 23 26 11

**2.- Preparation composition/information**

*Qualitative composition:*  
Acidic aqueous solution with non-ionic surfactants and water-soluble organic solvents.

*Application:*  
As a rust remover on iron surfaces and lime scale remover.

**3.- Identification of dangers**

Xi Irritant  
Irritates eyes and skin.

**4.- First Aid**

*inhalation:*  
Ventilated areas must be used for working the product hot. In the event of accidental gas leakage, remove the person affect from the contaminated area and into the fresh air, keeping him sitting upright and relaxed. Where necessary, apply artificial respiration and request medical assistance.

*contact with the skin:*  
Remove any splashed clothing immediately and rinse the affected area with plenty of water or a diluted sodium bicarbonate solution. Request medical assistance for serious injuries.

*contact with the eyes:*  
Wash with plenty of water for at least fifteen minutes. Quickly request the assistance of an ophthalmologist.

*swallowing:*

Drink mild alkalis such as magnesium, calcium saccharate or milk.  
Do not drink sodium bicarbonate as the pressure of the gases forming in the stomach may cause intestinal perforation.

### **5.- Fire fighting**

Non-flammable product.

*Appropriate extinguishing means:*

Not applicable.

*Means not used for reasons of safety:*

None known.

*Special risks of the preparation, the combustion products or the gases produced:*

On reaction with metals, the product may give off hydrogen, a gas that is extremely flammable and may form explosive mixtures in the air.

*Special protective equipment for fire-fighting personnel:*

The product is non-flammable. No special measures are required.

### **6.- Measures to take in the event of accidental spillage**

*Environmental measures:*

Do not pour the pure product directly down the drain.

*Cleaning methods:*

Clean up using absorbent materials (sand, sawdust, etc.).

*Additional information:*

Avoid contact with the eyes and the skin, wear goggles and protective gloves.

### **7.- Handling and storage**

*Handling:*

Wear gloves, protective goggles and an apron when handling the pure product.

*Storage:*

Avoid extreme temperatures and the possibility of accidentally mixing it with other products. Do not pour the product into metal containers.

## **8.- Exposure/personal protection controls**

*Information for configuring technical plants:*

No special measures are required.

*Components with exposure limit values in the workplace:*

None.

*Personal protection equipment:*

Breathing protection: Not required.

Skin protection: Wear suitable protective gloves and an apron.

Eye protection: Protective goggles.

*Industrial hygiene:*

Wash your hands with soap and water after handling the product.

## **9.- Physical and chemical properties**

*Colour:* Grey-brown.

*Smell:* Characteristic.

*State:* Dense liquid.

*Boiling point:* approx. 120°C.

*Freezing point:* approx. -10°C.

*Density ( Kg/l ):* 1.28.

*pH (as such):* 1.

*Solubility:* Total in water, emulsions may be formed in organic solvents.

## **10.- Stability and reactivity**

*Conditions to avoid:*

Avoid extreme temperatures and the possibility of accidentally mixing it with other products. Do not pour the product into metal containers.

*Materials to avoid:*

None known if used for the correct purpose.

*Dangerous decomposition products:*

None if used for the correct purpose.

## **11.- Toxicological information**

*Inhalation:*

No toxic or dangerous fumes are given off under normal conditions. Organic fumes may be given off if worked hot, which may slightly irritate mucous membranes and respiratory tracts. In the event of reaction with certain substances, toxic or dangerous

gases (hydrogen sulphide, carbon dioxide, chlorine, etc) may be given off.

*Contact with the skin:*

Prolonged contact with the skin may cause burning due to the acidity of the product.

*Contact with the eyes:*

May cause serious burns.

*Swallowing:*

May cause internal injuries due to its acidic nature.

### **12.- Ecological information**

*Persistence and degradability:*

Fast and easy to eliminate. All of the product's organic components are within the ready biodegradability test (OCDE 301 A-F) to at least a 60% DBO/DQO or 70% COD reduction (the limit values for ready degradable classification are: reduction  $\geq 70\%$  COD  $\geq 60\%$  DBO/DQO in 28 days).

### **13.- Considerations on elimination**

Contact MINEA QUIMICA S.L.

### **14.- Transport-related information**

This is not a dangerous material for transport, according to RID/ADR, GGVs/GGVE, ADNR, IMDG, ICAO-TI/IATA-DGR.

### **15.- Regulatory information**

R.S.I.: 37.4053/CAT

Biodegradable

Pictogram: Xi Irritant

R 34: Causes burns.

R 36/38: Irritates eyes and skin.

S 24/25: Avoid contact with eyes and skin.

S 26/28: In the event of contact with the eyes, wash immediately with plenty of water and seek medical advice. In the event of contact with the skin, wash immediately with plenty of water.

### **16.- Additional information**

This information is based on current knowledge of the product and its components and refers to the product in the form in which it is supplied.

The product is described in terms of its safety requirements and does not seek to guarantee any particular property or characteristic.