

# Valagro S.p.A.

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**Responsible Care**  
L'impegno dell'industria chimica  
per l'ambiente  
la sicurezza la salute

**COMPANY WITH  
ENVIRONMENTAL MANAGEMENT  
SYSTEM CERTIFIED BY DNV**  
= ISO 14001 =

**COMPANY  
WITH QUALITY SYSTEM  
CERTIFIED BY DNV**  
= ISO 9001/2000 =



## SAFETY SHEET BREXIL Mn

VALAGRO SDS according to Regulation 1907/2006/EC

Date: 6/5/2010 Rev. 1.0

Product: BREXIL Mn

Code: 11284711108111

Print date: 7/6/2010

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Trade name: BREXIL Mn  
Trade code: 11284711108111  
Product type and use: Fertilizer  
Company:  
VALAGRO SPA - Zona Industriale 66041 - Atessa - Italy

Emergency telephone number of the company and/or of an authorised advisory centre:  
VALAGRO SPA - Telephone (+39) 0872 8811; Telefax number. (+39) 0872 881382  
Centro Antiveleni - Ospedale di Niguarda - Milano Telephone (+39) 02 66101029

Competent person responsible for the safety data sheet:  
regulatory@valagro.com

### 2. HAZARDS IDENTIFICATION

No specific hazards are encountered under normal product use.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Manganese Ligninsulfonate

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:  
None.

### 4. FIRST AID MEASURES

Contact with skin:  
Wash with plenty of water and soap.  
Contact with eyes:  
Wash immediately with water for at least 10 minutes.  
Swallowing:  
Rinse mouth, give water to drink. SEEK A MEDICAL EXAMINATION IMMEDIATELY and present the safety-data sheet.  
Inhalation:  
Ventilate the premises. The patient is to be removed immediately from the contaminated premises and made to rest in a well ventilated area. Should the patient feel unwell, OBTAIN MEDICAL ATTENTION.

### 5. FIRE-FIGHTING MEASURES

Recommended extinguishers:  
Water, CO<sub>2</sub>, Foam, Chemical powders, according to the materials involved in the fire.

Extinguishers not to be used:

None in particular.

Risks arising from combustion:

Avoid inhaling the fumes.

Sulphuric fumes may be released

Protective equipment:

Use protection for the respiratory tract.

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## 6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

Use gloves and protective clothing.

Environmental measures:

Limit leakages with earth or sand.

If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

Cleaning methods:

If the product is in a liquid form, stop it from entering the drainage system.

Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.

After the product has been recovered, rinse the area and materials involved with water.

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## 7. HANDLING AND STORAGE

Handling precautions:

Avoid contact and inhalation of the vapours. See, too, paragraph 8 below.

Do not eat or drink while working.

Incompatible materials:

None in particular.

Storage conditions:

Keep containers tightly closed

Instructions as regards storage premises:

Adequately ventilated premises.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled.

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged, e.g. CEN/FFP-2(S) or CEN/FFP-3(S).

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Eye protection:

Use close fitting safety goggles and/or visor conforming to BS 2092 GRADE 1).

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Exposure limit(s) (ACGIH):

recommended limit inhalable powder : TLV/TWA: 10 mg/m<sup>3</sup>

recommended limit breathable powder: TLV/TWA: 3 mg/m<sup>3</sup>

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour: brown microgranules

Odour: N.A.

pH (t = 25 °C): N.A.

pH 1% (t = 25 °C): 3.3

Conductivity (1 g/l) : 0.44 mS/cm 18 °C

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Melting point:	N.A.
Boiling point:	N.A.
Flash point:	N.A.
Solid/gas flammability:	N.A.
Explosive properties:	N.A.
Oxidizing properties:	N.A.
Vapour pressure:	N.A.
Relative density:	0.6 Kg/dm <sup>3</sup>
Solubility in water (t = 25 °C):	40 %
Lipid solubility:	N.A.
Partition c. (n-octanol/H <sub>2</sub> O):	N.A.
Vapour density:	N.A.

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## 10. STABILITY AND REACTIVITY

Conditions to avoid:

Heating at high temperature (250-300 °C) and humid and unventilated places

Substances to avoid:

Contact with alkalis substances such as lime may cause ammoniac fumes release

Hazardous decomposition products:

In case of fire SO<sub>x</sub>; CO

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## 11. TOXICOLOGICAL INFORMATION

There is no toxicological data available on the mixture.

Toxicological information on main components of the mixture:

The product does not contain toxicologically relevant substances.

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## 12. ECOLOGICAL INFORMATION

Adopt good working practices, so that the product is not released into the environment.

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## 13. DISPOSAL CONSIDERATIONS

Recover if possible. In so doing, comply with the local and national regulations currently in force.

Where applicable, refer to the following regulatory provisions : 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

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## 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

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## 15. REGULATORY INFORMATION

Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments. Commission Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparation) and subsequent amendments. Commission Directive 98/24/EC (Protection of the health and safety of workers from the risk related to chemical agent). Commission Directive 2000/39/EC (Occupational exposure limit values). Regulation (EC) No 1907/2006 (REACH).

The substance should not be considered as dangerous accordingly to dir. 67/548/EEC.

Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.

Regulation (EC) nr 648/2004 (detergents).

1999/13/EC (VOC directive)

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## 16. OTHER INFORMATION

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

ACGIH - Threshold Limit Values - 2004 edition

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.