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Issued 31/01/2011

Revision 1.0 (31/01/2011)

SAFETY DATA SHEET
(According to Regulation EC No 453/2010)**1 - IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING**

1.1 Product identifier	
Trade name:	Brexil Nutre
1.2 Relevant identified uses of the mixture and uses advised against	
Relevant identified uses of the mixture:	Fertilizer
1.3 Details of the supplier of the safety data sheet:	
	VALAGRO Spa Zona Industriale 66041 ATESSA (CHIETI) ITALY Tel. (+39) 0872 8811 Fax (+39) 0872 881382
Competent person responsible for the safety data sheet:	E-mail: regulatory@valagro.com
1.4 Emergency telephone number:	
	Tel. (+39) 02 66101029 (Centro Antiveneni Ospedale Niguarda Milano) Tel. (+39) 0872 8811 (Valagro Spa _ from Monday to Friday from 8.30 to 13:00 and from 14:00 to 17.30 h)

2 - HAZARDS IDENTIFICATIONS

2.1 Classification of the mixture:	
Classification according to Directive 1999/45/EC:	
Not classified as dangerous	
Most important adverse physicochemical, human health and environmental effects:	
see sections from 9 to 12.	
2.2 Label Elements	
Hazard pictograms : none	
Signal word: none	
Risk sentences: none	
Safety sentences : none	
2.3 Other hazards	
None	

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Mixture components : iron ligninpolycarboxylate complex, zinc, iron, manganese



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4 - FIRST AID MEASURES

4.1 Description of first aid measures

Routes of exposure:

Inhalation: The powder may causes irritation to respiratory system; in case of inhalation well ventilate the room.

Take away the subject from the contaminated area and move to fresh air.

In case of malaise seek medical advice

Skin: Take off immediately all contaminated clothing. Rinse immediately and abundantly with water and soap the contaminated parts , even if only suspicious.

Eye: Rinse immediately and abundantly with water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing; then protecting the eyes wit a sterile gauze or cleaned handkerchief. Seek medical advice.

Ingestion: Rinse mouth. Give water to drink. Do not give anything in person unconscious or confused. Seek medical advice

Advice:

Who provides the first medical aide must use the individual protection equipment (latex gloves and safety glasses)

4.2 Most important symptoms and effects, both acute and delayed

- **Inhalation** : it may causes irritation
- **Skin:** it may causes irritation
- **Eye:** it may causes irritation
- **Ingestion:** N.A.

4.3 Indication of any immediate medical attention and special treatment needed

Seek immediately medical advice showing the safety data sheet.

5 - FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Vaporized water, foam, carbon dioxide (CO₂)

Information on the appropriate extinguishing media: N.A.

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per l'ambiente
la sicurezza la salute

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

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



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Unsuitable extinguishing media: N.A.

Indications if extinguishing media are inappropriate for a particular situation involving the substance or mixture: None in particular.

5.2 Special hazards arising from the substance:

In case of fire can develop sulfur and nitrous gas

5.3 Advice for firefighters:

In case of fire and in close proximity wear the protective clothes heat resistant and air respiratory equipment.

6 - ACCIDENTAL RELEASE MEASURE

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Keep away from the affected area people not involved in the emergency intervention.

Alert the responsible of the internal emergency.

For emergency responders: Wear protective clothes giving a total skin protection, latex gloves and safety glasses.

6.2 Environmental precautions:

Limit leakages with earth or sand.

If the product has entered a watercourse, sewer system or has contaminated soil or vegetation, notify the competent authorities

6.3 Methods and material for containment and cleaning up:

If the product is in liquid form, preventing it from entering the sewer system.

Recover the product for reuse, if possible, or for elimination. Soak it with inert material.

After collection, rinse with water the area and materials involved

6.4 Reference to other sections:

referred to Sections 8 and 13

7 - HANDLING AND STORAGE

7.1. Precautions for safe handling

Operate in well-ventilated areas far from incompatible and reactive substances. Always respect hygienic rules, do not drink neither eat. Avoid eye and skin contact. Use self-protective equipment (PVC gloves, boots, PVC overalls).



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Remove all contaminated clothing and wash them before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a well-ventilated place far from sunrays and flammable substances.

7.3 Specific end use(s):

None

8 - EXPOSURE CONTROL/ PERSONAL PROTECTION**8.1 Control parameters****Occupational exposure limit values:**

Exposure limit Iron (Fe)	TWA	1mg/m ³	soluble salts
Exposure limit Manganese (Mn)	TWA	0.2 mg/m ³	inorganic compounds

ACGIH (2003) : recommended value inhalable dust: TLV/TWA: 10 mg/m³

ACGIH (2003) : recommended value breathable dust: TLV/TWA: 3 mg/m³

biological limit values: N.A.

DNEL: N.A.

PNEC: N.A.

Recommended monitoring procedures: N.A.

8.2 Exposure control

- Appropriate engineering controls: Operate in well-ventilated areas

- Individual protection measures, such as personal protective equipment:

The personal protective equipment must be compliant to the regulation UNI -EN in force

Eye / face protection: Wear safety glasses according to the standard EN 166, don't use contact lenses.

Skin protection:

-Hand protection: Wear latex gloves according to the standard EN 374. In case of permanent (>480 min) and direct contact, wear 100% nitrile rubber gloves

-Other: Wear total skin protection clothes

Respiratory protection:

Use anti-powder mask with P2 filters in case of dust making. The powder exposition limit must be respected

- **Environmental exposure controls:** N.A.



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9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance (25° C):	Brown microgranules	
Odour:	coffee	
Odour threshold:	NA	
pH:	NA	at 25 °C
Melting point/freezing point:	NA	
Initial boiling point and boiling range:	NA	
Flash point:	NA	
Evaporation rate:	NA	
Flammability (solid, gas):	NA	
Upper/lower flammability or explosive limits:	NA	
Vapour pressure:	NA	
Vapour density:	NA	
Relative density:	0.54	
Solubility:		
- Solubility in water:	300	g/l at 25°C
- Lipid solubility:		g/l at 25°C
Partition coefficient: n-octanol/water	NA	
Auto-ignition temperature:	NA	
Decomposition temperature:	NA	
Viscosity:	NA	
Explosive properties:	> 40	
Oxidising properties:	NA	
9.2 Other information		
pH water solution 1%	3.1	at 25° C
Conductivity	0.6	(1‰) mS/cm 18 °C

10 - STABILITY AND REACTIVITY



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10.1 Reactivity:
Reacts with strong bases and strong oxidizing agents
10.2 Chemical stability:
Stable under normal working condition
10.3 Possibility of hazardous reactions:
The product reacts with strong bases with production of gas of ammonia; in case of fire toxic fumes are released (NO _x , CO _x , SO _x)
10.4 Conditions to avoid:
Contact with alkali such as lime can result in the emission of ammonia gas. Avoid contact with strong oxidizing agents and heating at elevated temperatures (250-300 ° C). Avoid storing the product in damp and unventilated areas.
10.5 Incompatible materials:
Bases and strong oxidizing agents
10.6 Hazardous decomposition products:
In case of reaction with bases gas of ammonia is released. In case of fire toxic fumes may be released (NO _x , CO _x , SO _x).

11 - TOXICOLOGICAL INFORMATION
Toxicological (health) effects caused by exposure to the mixture: see also sections 2 and 4.
11.1 Information on toxicological effects
The dust may cause irritation to the respiratory system. Nitrogen oxides (NO _x) produced by heating the product over 150°C may cause pulmonary edema combined to an increased sensibilisation to respiratory infections. The prolonged contact with skin may cause irritation and hitching, the direct eyes contact may cause irritation.
<i>acute toxicity:</i> rats : NA
<i>irritation:</i> The prolonged contact with skin may cause irritation and hitching. The direct contact with eyes may cause irritation.
- <i>corrosivity:</i> N.A.
- <i>sensitisation:</i> N.A.
- <i>repeated dose toxicity:</i> N.A.
- <i>Carcinogenicity:</i> N.A.
- <i>mutagenicity:</i> N.A.
- <i>toxicity for reproduction:</i> N.A.
Information on likely routes of exposure:
Inhalation: can be irritant for nose and respiratory system Skin: can be irritant for skin



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Eye: can be irritant for eyes
Ingestion: not available data

Other informations:

N.A

12 - ECOLOGICAL INFORMATION

Use according to good working rules, avoid to dispose of the product in the environment (see sections 6, 7, 13,14 e 15).

12.1 Toxicity:

N.A.

12.2 Persistence and degradability:

N.A.

12.3 Bioaccumulative potential:

N.A.

12.4 Mobility in soil:

N.A.

12.5 Results of PBT and vPvB assessment

N.A.

12.6 Other adverse effects

N.A.

13 - DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Recover the product, if possible, or send to the incineration and disposal system.

Avoid discharging in sewer and water courses .

Follow the local and national disposition in force

14 - TRANSPORT INFORMATION

Not dangerous product within the meaning of transport regulations

15 - REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance:**

Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments. Council Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparations) 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). Regulation (EC) No 1272/2008 (CLP) (Annex VI). Regulation (EC) No 790/2009 (Annex IV, Annex V).

15.2. Chemical safety assessment:



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16 - OTHER INFORMATION

This MSDS was revised to get it compliant to regulation 453/2010 and cancels and replaces any preceding release. 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.

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

ESIS

Acronyms used in the safety data sheet:

ADN: Accord europeen relative au transport international des marchandises dangereuses par voies de navigation interieures (accordo europeo relativo al trasporto internazionale delle merci pericolose per vie navigabili interne)

ADR: Accord europeen relative au transport International des marchandises dangereuses par route (accordo europeo relativo al trasporto internazionale delle merci pericolose su strada)

ACGIH: American Conference of Governmental Industrial Hygienist

BOD5: Biological Oxygen Demand (domanda biochimica di ossigeno)

COD: Chemical Oxygen Demand (domanda chimica di ossigeno)

CL50: Lethal concentration 50 (Concentrazione Letale per il 50% degli individui)

CLP: Classification, Labelling and Packaging (Classificazione, Etichettatura e Imballaggio)

CSR: Rapporto sulla sicurezza chimica (Chemical Safety Report)

DL 50: Lethal Dose 50 (Dose letale per il 50% degli individui)

DNEL : Derived No effect level (livello derivato senza effetto)

IARC: International Agency for Research on Cancer (Ente internazionale per la ricerca sul cancro)

IATA: International air transport association (associazione internazionale del trasporto Aereo)

ICAO: International Civil aviation Organization (Organizzazione Internazionale dell'Aviazione Civile)

Codice IMDG: International Maritime Dangerous Goods code (Codice sul regolamento del trasporto marittimo)

PBT: Persistent, bioaccumulative and toxic (sostanze persistenti, bioaccumulabili e tossiche)

PNEC: Predicted No Effect Concentration (concentrazione prevedibile priva di effetti)

RID: Reglement concernent le transport International ferroviarie des marchandises dangereuses (Regolamento concernente il trasporto Internazionale ferroviario delle merci Pericolose)

STEL: short term exposure limit (limite di esposizione a breve termine)

TLV: threshold limit value (soglia di valore limite)

TWA: Time Weighted Average (media ponderata nel tempo)

UE: European Union (Unione europea)

vPvB: Very persistent very bioaccumulative (sostanze molto persistenti e molto bioaccumulabili)

N.A. : not available