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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 =



Printed 16/02/11

Issued 26/11/2010

Revision 1.0 (26/11/2010)

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:	RENOVA
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	
Hazard statements: none	
Precautionary statements: none	
2.3 Other hazards	
None	

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Mixture components: Organo- mineral liquid fertiliser



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4 - FIRST AID MEASURES

4.1 Description of first aid measures

Routes of exposure:

- Inhalation:** N.A.
- **Skin:** N.A.
- **Eye:** N.A.
- **Ingestion:** N.A.

Advice:

4.2 Most important symptoms and effects, both acute and delayed

- **Inhalation:** unlikely
- **Skin:** Rinse the contaminated part with water and soap. Wash clothes before reuse.
- **Eye:** Rinse immediately and abundantly with water for at least 10 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if the irritation spreads out
- **Ingestion:** rinse mouth with water. A consistent ingestion may cause irritation.

4.3 Indication of any immediate medical attention and special treatment needed

N.A.

5 - FIREFIGHTING MEASURES

The product is not flammable

5.1 Extinguishing media

Suitable extinguishing media: water, foam, CO₂, sand.

Information on the appropriate extinguishing media: N.A.

Unsuitable extinguishing media: N.A.

Indications if extinguishing media are inappropriate for a particular situation involving the substance or mixture: N.A.

5.2 Special hazards arising from the substance:

In case of fire noxious fumes (CO, CO₂) may be released

5.3 Advice for firefighters:

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



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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. See also section 8

6.2 Environmental precautions:

If possible store into a clean container either to reuse or disposal. Avoid waterway and discharging contamination, competent authority must be informed in case of waterway accidental contamination

6.3 Methods and material for containment and cleaning up:

Any release should be immediately cleaned up wearing protective clothes(suit, latex gloves and safety glasses).

If possible store into a clean container either to reuse or disposal. If possible absorb with the inert material

After store, wash the area with water and suitable materials

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

7.2 Conditions for safe storage, including any incompatibilities

Storage in limited areas with containing device

7.3 Specific end use(s):

Always respect hygienic rules, do not drink neither eat. Avoid eye and skin contact. Use self-protective equipment. Remove all contaminated clothing and wash them before reuse.

8 -EXPOSURE CONTROL/ PERSONAL PROTECTION**8.1 Control parameters**

Occupational exposure limit values: N.A.

biological limit values: N.A.

DNEL: N.A.

PNEC: N.A.

Recommended monitoring procedures: N.A.



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<p>8.2 Exposure control</p> <p>Appropriate engineering controls: Ensure general air exchange</p> <p>Individual protection measures, such as personal protective equipment: The personal protective equipment must be compliant to the regulation UNI –EN in force</p> <p>Eye / face protection: Wear safety glasses according to the standard EN 166, don't use contact lenses.</p> <p>Skin protection: -Hand protection: Wear latex gloves according to the standard EN 374.</p> <p>-Other: Wear total skin protection clothes</p> <p>Respiratory protection: not required in normal work conditions</p> <p>- Environmental exposure controls:</p>
<p>8.2.3. Environmental exposure controls</p> <p>N.A.</p>

9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties		
Appearance (25° C):	Black liquid	
Odour:	N.A.	
Odour threshold:	N.A.	
pH:	8.0	at 25 °C
Melting point/freezing point:	< -4	
Initial boiling point and boiling range:	>100	°C at Pa (1mmHg = 133.32 Pa)
Flash point:	N.A.	
Evaporation rate:	N.A.	
Flammability (solid, gas):	N.A.	
Upper/lower flammability or explosive limits:	N.A.	
Vapour pressure:	N.A.	
Vapour density:	N.A.	
Relative density:	1.26	kg/dm ³



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Solubility:		
- Solubility in water:	Complete	g/l at 25°C
- Lipid solubility:	N.A.	g/l at 25°C
Partition coefficient: n-octanol/water	N.A.	
Auto-ignition temperature:	N.A.	
Decomposition temperature:	N.A.	
Viscosity:	N.A.	
Explosive properties:	N.A.	
Oxidising properties:	N.A.	
9.2 Other information		
pH water solution 1%	7.6	at 25°C
Conductivity	0.29	(1%) mS/cm 18 °C

10 - STABILITY AND REACTIVITY

10.1 Reactivity:
stable in storage and handling recommended conditions
10.2 Chemical stability:
avoid contact with strong oxidants
10.3 Possibility of hazardous reactions:
CO ₂ and SO ₂ fumes release in case of very hot temperature
10.4 Conditions to avoid:
N.A.
10.5 Incompatible materials:
N.A.
10.6 Hazardous decomposition products:
N.A.

11 - TOXICOLOGICAL INFORMATION

Toxicological (health) effects caused by exposure to the mixture; see also sections 2 and 4.
There is no toxicological data available on the mixture.

11.1 Information on toxicological effects

- acute toxicity: N.A.
- irritation: N.A.
- corrosivity: N.A.
- sensitisation: N.A.



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- **repeated dose toxicity: N.A.**
- **Carcinogenicity: N.A.**
- **mutagenicity: N.A.**
- **toxicity for reproduction: 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:**

Biodegradable organic substance

12.3 Bioaccumulative potential:

N.A.

12.4 Mobility in soil:

soluble product which may scattering in environmental compartments: water, soil, sediment.

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 waterway and discharging contamination.

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).



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15.2. Chemical safety assessment:

N.A.

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
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

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