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Issued 29/11/2010

Revision 1.0 (29/11/2010)

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:	ERGER
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:	
 Xi: Irritant R41 Risk of serious damage to eyes.	
Most important adverse physicochemical, human health and environmental effects: see sections from 9 to 12.	
2.2 Label Elements	
 Xi: Irritant R41 Risk of serious damage to eyes.	
S 2 Keep out of the reach of children. S18 Handle and open container with care S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S39 Wear eye/face protection. S46 If swallowed, seek medical advice immediately and show this container or label.	
2.3 Other hazards	
None	



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3 - COMPOSITION/INFORMATION ON INGREDIENTS

Name	EINECS	CAS	Classification Directive 67/548/EEC	Classification Regulation (EC)1272/2008	Conc. (%)
Polymer-based on 2-propylheptanol ethoxylate propoxylated	N.A.	N.A.	Xn R22 R41	Acute Toxicity: Cat. 4 (oral) serious damage to eyes / irritating to eyes: Cat. 1	20-25

4 - FIRST AID MEASURES**4.1 Description of first aid measures**

Routes of exposure:

- **Inhalation:**
In case of inhalation, remove the subject from the contaminated area and move to fresh air.
If you feel unwell contact a doctor
- **Skin:**
Rinse the affected area with soap and water. Wash contaminated clothing before reuse. Contact a doctor in case of skin irritation
- **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:**
If victim is conscious, give water to drink, seek medical attention showing the MSDS of the product.

Advice:

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

4.2 Most important symptoms and effects, both acute and delayed

- **Inhalation:**
If inhaled, especially at high temperatures can cause nausea and respiratory irritation.
- **Skin:**
It can create skin irritation, also depending on the time of contact.
- **Eye:**
Serious eye injury risk, also depending on the time of contact.



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- **Ingestion:**

May cause irritation of the gastrointestinal tract

4.3 Indication of any immediate medical attention and special treatment needed

In case of incident seek medical advice showing the safety data sheet

5 - FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Water spray, foam, CO2, dry powder

Information on the appropriate extinguishing media:

In case of fire remove and cool exposed containers with water

Unsuitable extinguishing media:

none

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 toxic fumes may be released (NOx, SOx, COx)

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:

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

6.3 Methods and material for containment and cleaning up:

Containing spill with earth or sand.



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Any release should be immediately cleaned up and pumped into clean plastic containers
Slipping risk during the procedure of cleaning up

6.4 Reference to other sections:

Referred to Sections 8 and 13

7 - HANDLING AND STORAGE**7.1. Precautions for safe handling**

Avoid direct contact with skin and eyes and inhalation of vapors.
See also paragraph 8. Observe normal hygiene practices before breaks and rest breaks.
Remove protective clothing before entering areas where you eat.
Do not eat, drink or smoke in working areas

7.2 Conditions for safe storage, including any incompatibilities

The product should be stored in original packaging in a well ventilated area away from sources of heat and flammable substances.

7.3 Specific end use(s):

None

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.

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

Skin protection:**-Hand protection:**

Wear latex gloves according to the standard EN 374

-Other:

Wear total skin protection clothes

Respiratory protection:

Wear a mask with universal filter if fumes are given off.

-Environmental exposure controls:

Valagro S.p.A.

Zona Ind.le 66040 ATESSA (Ch) ITALIA
tel. (+39)0872 881.1 Fax (+39)0872 897416
www.valagro.com info@valagro.com



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ISO 9001/2000



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N.A.

9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance (25 °C):	Liquid brown	
Odour:	N.A.	
Odour threshold:	N.A.	
pH:	5.7	at 25 °C
Melting point/freezing point:	N.A.	
Initial boiling point and boiling range:	> 100	°C
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:	1.25	
Solubility:		
- Solubility in water:	Complete	g/l at 25°C
- Lipid solubility:		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%	6.0	at 25°C
Conductivity	0.53	(1‰) mS/cm 18 °C

10 - STABILITY AND REACTIVITY

10.1 Reactivity:

The product may react with strong acids and bases and strong oxidizing agents.



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10.2 Chemical stability:
Stable under normal working conditions.
10.3 Possibility of hazardous reactions:
The product can release ammonia when placed in contact with strong bases
10.4 Conditions to avoid:
High temperatures and poor ventilation
10.5 Incompatible materials:
Strong acids and bases, strong oxidizing agents
10.6 Hazardous decomposition products:
Oxides of nitrogen, sulfur and carbon monoxide

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.
Following the Toxicological information on main components of the mixture.

11.1 Information on toxicological effects

Polymer-based on 2-propylheptanol ethoxylate propoxylated (essentially untested, the data refer to substances with similar structure and composition)

- **acute toxicity:**
LD 50 rat (oral) > 300-2000 mg/Kg
- **irritation:**
rabbit_skin: non-irritating

rabbit_eyes: irreversible damage
- **corrosivity:**
corrosive, causing irreversible damage to eyes
- **sensitisation:**
N.A.
- **repeated dose toxicity:**
N.A.
- **Carcinogenicity:**
N.A.
- **mutagenicity:**
N.A.
- **toxicity for reproduction:**



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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:

There are no data available on the mixture.
Polymer-based on 2-propylheptanol ethoxylate propoxylated (essentially untested, the data refer to substances with similar structure and composition)
Fish LC50: 10-100 mg/l 96 h
Dafnia magna EC50: 10-100 mg/l 48h
aquatic plants: EC50: 10-100 mg/l 72h (literature value)

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 if possible, or send to incineration or disposal plants.
Never discharge into drains or watercourses.
Conform to local and national dispositions. Wash the packages and recover the water, and if this is not possible, proceed with the treatment as per law.

14 - TRANSPORT INFORMATION

Not classified as dangerous in 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 ferroviaire 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