



European Agrobiotechnology Laboratories

L.E.A. S.r.l. Società Unipersonale

SAFETY DATA SHEET

In accordance with Regulation (EC) 1907/2006 (REACH), Annex II

Fertilizer containing < 5,5% of boric acid

Creation: March 29, 2011

Version : 1.0

1. Identification of the substance and of the company	
1.1 Product identifier	
Trade name:	Enerfol 30-15-10
Chemical name:	<i>N/A: is a mixture</i>
EC number	<i>N/A: is a mixture</i>
REACH registration n:	<i>N/A: is a mixture and constituents are already registered</i>
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Uses (see section 16) agricultural uses	<u>Uses by professional workers</u> <u>Uses by consumers</u>
Uses advised against:	None
1.3 Details of the supplier of the safety data sheet	
Manufacturer/Importer/Supplier:	L.E.A. S.r.l. Società Unipersonale Viale delle Nazioni, 77 41122 MODENA (MO) Phone +39 059 8638811 Fax+39 059 8638017 E-mail: info@leaagricoltura.it
e-mail address	info@leaagricoltura.it
1.4 Emergency telephone number	
Emergency phone number: Poison Centers H24	Milano – 0266101029 / Napoli – 0817472870 Pavia – 038224444 / Bergamo - 035269469 Roma – 063054343 opp. 06490663
2. HazardS identification	
2.1 Classification of the substance	
Classification in accordance with Regulation 1272/2008 (CLP)	
none	
Classification in accordance with Directive 67/548 (DSD)	
none	
2.2 Label elements	
Labelling in accordance with Regulation 1272/2008 (CLP)	
Hazard pictogram(s):	none
Annex XVII (Reach regulation) modified from Reg. 552/2009 requires that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows:	Restricted to professional users



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2.3 Other hazards				
PBT/vPvB criteria:		According to Annex XIII of Regulation (EC) No 1907/2006, no PBT and vPvB assessment has been conducted since substance is inorganic.		
Other hazards:		None known		
3. Composition/information on ingredients				
Substances				
According to the REACH Regulation the product is a mixture				
Chemical name	CAS no.	EC no.	IUPAC name / Classification	Purity
Boric acid	10043-35-3	233-139-2	Boric acid Repr. 1B GHS08, H360 Repr. Cat.2 T, R60-61	≥0,1%; <5,5%
Other non dangerous constituents	N/A	N/A	N/A	>94,5%
4. First-aid measures				
4.1 Description of first aid measures				
Eye contact:	Immediately wash eyes with plenty of running water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses if present and easy to do. Seek medical advice if irritation develops and persists.			
Skin contact:	Wash affected skin area with plenty of water and soap for at least 15 minutes thoroughly while removing contaminated clothing and shoes. Seek medical advice if irritation develops and persists			
Ingestion:	Seek medical advice if the victim feels unwell. Wash out mouth with plenty of water and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical advice if symptoms occur.			
Inhalation:	Remove the victim from exposure into fresh air immediately if adverse effects (e.g. dizziness, drowsiness or respiratory irritation) occur. If not breathing, give artificial respiration or if breathing is difficult, give oxygen and seek medical advice. Do not use mouth-to-mouth respiration. Seek medical advice immediately when vapors are intensively inhaled.			
4.2 Most important symptoms and effects				
Acute effects	None known			



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Delayed effects	None known
4.3 Indication of any immediate medical attention and special treatment needed	
5. Fire-fighting measures	
5.1 Extinguishing media	
Suitable:	Water, foam
Not suitable:	None known
5.2 Special hazards arising from the substance or mixture	
Not known	
5.3 Advice for firefighters	
No special measures required. In the event of fire, wear a self-contained breathing apparatus and a chemical protective suit.	
6. Accidental release measures	
6.1 Personal precautions, protective equipment and emergency procedures	
Use suitable protective equipment.	
6.2 Environmental precautions	
Prevent the material from contact with soil, entering surface water or sanitary sewer system. Do not discharge directly to a water source. If accidental spillage or washings enter drains or watercourses contact local authority.	
6.3 Methods and material for containment and cleaning up	
Vacuum or sweep up and place into suitable labelled containers for recovery or disposal. Clean up affected area with a large amount of water. Do not collect spilled material in sawdust or other combustible material. Prevent formation of dust clouds. Residual trace can be wiped away.	
6.4 Reference to other sections	
See section 8 for personal protective equipment and section 13 for waste disposal.	
7. Handling and storage	
7.1 Precautions for safe handling	
Technical measures/ Precautions:	Use with adequate ventilation. Local exhaust ventilation should be provided. Avoid contact with eyes, skin and clothing. Avoid creating dusty conditions and prevent wind dispersal. Keep away from sources of ignition. Avoid contamination by any source including metals, dust and organic materials. Keep away from moisture (for solid product).
General occupation hygiene:	Do not eat, drink or smoke in work areas. Wash hands after use. Remove contaminated clothing and protective



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	equipment before entering eating areas.
7.2 Conditions for safe storage, including any incompatibilities	
Technical measures/ Storage conditions:	Keep in the original container. Keep container tightly closed in a cool, dry, well-ventilated place. Keep product away from heat, sparks, flame and other sources of ignition, out of direct sunlight and away from combustible and reducing materials and other incompatible materials. Packaging materials: Stainless steel (304). Synthetic material. Non suitable: Zinc, Copper
Incompatible products:	Reducing materials
8. Exposure controls / personal protection	
8.1 Control parameters	
Regulated occupational exposure limit values:	None
Recommended occupational and consumer exposure limit values (LOAEL):	N/A
8.2 Exposure controls	
Appropriate engineering controls:	None required: Use of adequate ventilation is good industrial practice. In addition, an eyewash facility and a safety shower for facilities storing or utilizing this material is good industrial practice.
Environmental exposure controls:	Dispose of rinse water in accordance with local and national regulations.
Individual protection measures, such as personal protective equipment	
Respiratory protection:	Respiratory protection
Hand protection:	Protective gloves
Eye protection:	Chemical goggles or face shield
Skin and body protection:	Working clothes
Hygiene measures:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.
9. Physical and chemical properties	



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9.1 Information on basic physical and chemical properties	
Appearance:	Transparent liquid or white granules, powder
Odour:	Odourless or characteristic
Melting/Freezing temperature:	n.a.
Boiling temperature:	Data not available
Relative density (D4 (20)):	Data not available
Partition coefficient n-octanol/water:	Not applicable (insoluble in n-octanol)
Solubility in organic solvent	Data not available
Stability	Data not available
pH	Data not available
9.2 Other information: no data	
10. Stability and reactivity	
10.1 Reactivity	
Stable under recommended storage and handling conditions (see section 7, handling and storage).	
10.2 Chemical stability	
Stable under recommended storage and handling conditions (see section 7, handling and storage).	
10.3 Possibility of hazardous reactions	
Not known	
10.4 Conditions to avoid	
Not known	
10.5 Incompatible materials	
Reducing agents, strong acids and bases, metal powders	
10.6 Hazardous decomposition products	
Under normal conditions of storage and use, hazardous decomposition products should not be produced	
11. Toxicological information	
11.1 Information on toxicological effects	
ACUTE TOXICITY	
Acute oral toxicity:	LD ₅₀ : >2000 mg/kg bw
Acute dermal toxicity:	LD ₅₀ : > 5000 mg/kg bw
Acute inhalation toxicity:	Data not available
LOCAL EFFECTS	
Skin irritation:	Not irritating
Eye irritation:	Not irritating
Skin sensitization:	Not sensitizing
OTHER	



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Sub-acute toxicity:	Negative
Mutagenicity:	Negative
Reproductive toxicity:	Negative
Carcinogenicity:	Negative
12. Ecological information	
12.1 Toxicity	
Fish (short-term):	No data
Fish (long-term):	No data
Daphnia magna (short-term):	No data
Daphnia magna (long-term):	No data
Algae:	No data
12.2 Persistence and degradability	
Biodegradation:	Standard test is not applicable as the substance is inorganic.
12.3 Bioaccumulative potential	
Octanol-water partition coefficient	insoluble in n-octanol
12.4 Mobility in soil	
Adsorption coefficient:	No data
12.5 Results of PBT and vPvB assessment	
According to Annex XIII of Regulation (EC) No 1907/2006, no PBT and vPvB assessment has been conducted since substance is inorganic.	
13. Disposal considerations	
Waste from residues:	In accordance with local and national regulations, disposed by landfill or incineration. Controlled biodegradation in waste water treatment is possible. CER 06 03 14
Container:	Containers should be cleaned by appropriate method and then re-used or disposed by landfill or incineration as appropriate, in accordance with local and national regulations. Do not remove label until container is thoroughly cleaned.
14. Transport information	
UN Number:	n.a.
Proper shipping name:	n.a.
Transport hazard classes:	n.a.
Packaging group:	n.a.
Special precautions:	n.a.



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15. Regulatory information	
15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture:	in accordance with local and national regulations (if provided) concerning safe work and waste disposal
15.2 Chemical safety assessment:	No data
16. Other information	
The information provided in this safety data sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any proceed, unless specified in the text.	
Classification in accordance with Regulation 1272/2008, as listed in Annex VI: <i>None</i> .	
At the time of writing SDS, there are not yet sufficient studies to determine specific identified uses except as growth and development of plants for direct application.	
Version:	1.0
Creation date:	March 29, 2011
Revision date:	n.a.
Release info:	n.a.
Created/Revised by:	SILC FERTILIZZANTI SRL – Via delle Acque, 43 – 48124 Ravenna