

**INAGROSA**

Industrias Agrobiológicas .S.A.

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**SAFETY INFORMATION SHEET**

In accordance with Regulation (EC) Nº 1907/2006

**AMINORGAN**

Version 3 – This replaces all previous versions.

Revision date: 01.07.2014

**SAFETY SHEET – MSDS**

**AMINORGAN**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND THE COMPANY**

**1.1. Product Identifier.-**

Product Name : **AMINORGAN**

Internal Code : BIO 111

**Identified appropriate and inappropriate uses for the substance or mixture.-**

Use : Organic humic and biological soil amendment

**1.2. Information on the supplier of the safety information card/sheet.-**

Company : INDUSTRIAS AGROBIOLÓGICAS, S.A. –INAGROSA-

Address : C/ Recoletos, 6. 3º Izq. 28001 MADRID-ESPAÑA

Tel : (+34) 91.435.90.80/91.49

Fax : (+34) 91.575.54.67

E-mail : fichasseguridad@inagrosa.es

**1.3. Emergency telephone numbers**

INAGROSA : (+34) 964.24.00.33

National Institute of Toxicology (24 h) : (+ 34) 91.562.04.20

Transport : (+ 34) 964.56.50.19

**SECTION 2: IDENTIFICATION OF HAZARDS**

**2.1. Classification of the substance or mixture.-**

Not classified according to EU legislation. The product is not hazardous.

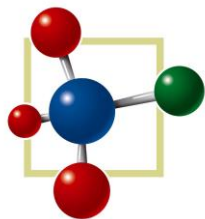
**2.2. Information shown on the label.-**

Information on the label: (EC) Regulation Nº 1272/2008

Safety advice/warning:

P102 Keep out of the reach of children

P401 Keep/Store away from food, drink and fodder

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**2.3. Other hazards.-**

None known

**SECTION 3: COMPOSITION/INFORMATION ABOUT THE COMPONENTS****3.1. Substance.-**

Organic matter of vegetable origin, treated and fermented with a bio-activator based on amino acids and oligopeptides (peptides of 3, 4 and 5 amino acids). The same active material as in the INAGORSA brands Naturcare and Kit RPG. It contains selected strains of microorganisms of agro-biological type to improve the fertility of the soils.

Name	CAS N°	EINECS N°	Other definitions
Amino acids and peptides	9015-54-7	310-295-0	Chemically modified natural polymer
Organic matter of vegetable origin	Not assigned	Not assigned	

Hazardous impurities: None

Does not contain hazardous components according to the OSHA-USA definitions, it complies with OSHA29CRF

**3.2. Mixtures.-**

Amino acids and oligopeptides (N° CAS 9015-54-7; N° CE 310-295-0) + organic vegetable matter + N + P + K

Hazardous impurities: None

**SECTION 4: FIRST AID****4.1. Description of first aid.-**

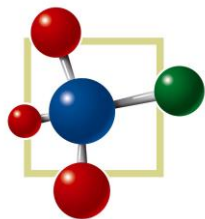
**General recommendations:** Although there are no foreseeable hazardous effects during the normal use of the substance or the mixture, certain instructions must be followed; for this purpose, in case of poisoning, always have the container, the label or the safety sheet at hand when contacting the Inagrosa emergency number, the National Institute of Toxicology, or when consulting a doctor.

**Inhalation:** Take the person affected to a ventilated cool space and notify a doctor. Monitor their breathing. Should there be irregular breathing or respiratory arrest, administer artificial respiration. Contact a doctor or a toxicology information centre immediately.

**Contact with the eyes:** Wash the eyes thoroughly with plenty of water for at least 15 minutes keeping the eyelids wide open to ensure an adequate rinse and contact a doctor.

**Ingestion:** Rinse the mouth with plenty of water and contact a doctor. Do not administer anything orally if the patient is unconscious.

**Contact with the skin:** Wash the skin immediately with plenty of water.



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**UNDER NO CIRCUMSTANCES CAN THE PERSON AFFECTED BE LEFT UNATTENDED AND, IF DUE TO THE ALLERGIC CONDITION OF THE PATIENT THE POISONING IS SEVERE, PLEASE CONTACT THE NATIONAL INSTITUTE OF TOXICOLOGY ON Tel 91 562 04 20**

#### 4.2. Main symptoms including acute and delayed effects. –

No symptoms or acute delayed effects have been either identified or observed.

#### 4.3. Instructions on all medical attention and special treatments that must be provided immediately.-

There is none to highlight. Deal with the symptoms.

### SECTION 5: FIRE FIGHTING MEASURES

#### 5.1. Means of extinguishing fires.-

**This product is not flammable, combustible and only slightly comburent under special circumstances of high temperatures and low humidity.**

Appropriate means of extinguishing fires: in the first instance, take notice of any available materials (water, etc.) in the surroundings. In case of fire it is recommended to use dry dust, carbon dioxide, water or foam.

Inappropriate means for extinguishing fires: None known.

#### 5.2. Specific hazards arising from the substance or mixture.-

In the case of combustion, the product may emit itching and suffocating fumes or, if it has been mixed with other chemical compounds, toxic and corrosive fumes.

The product itself is not flammable. The fire extinguishing measures must be coordinated taking into account local and environmental circumstances; use self-contained breathing apparatus and protection for the face and eyes.

#### 5.4. Other information.-

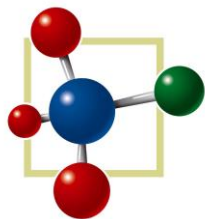
Do not allow the water from fire extinguishing processes to enter the sewage system or reach surface waters.

### SECTION 6: MEASURES IN CASES OF ACCIDENTAL SPILLAGE

#### 6.1. Personal precautions, protection equipment and emergency procedures.-

Comply with the health and safety policy of the centre, as well as with the safety recommendations, using protective gloves, safety glasses, appropriate clothing and good hygiene practices. Avoid the formation of inhalable spray and dust.

##### 6.1.1. For personnel who are not part of the emergency services:



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Avoid all contact with the skin. Wear protective gloves, glasses or a facial screen, adequate protective clothing as described in section 8: "Individual Exposure/Protection Controls". Keep away from ignition sources. Evacuate the hazardous area or consult an expert.

#### 6.1.2. For emergency personnel:

Wear protective gloves (nitrile), safety glasses or a facial screen, adequate protective clothing as described in section 8: "Individual Exposure/Protection Controls". Keep away from ignition sources. Evacuate the hazardous area or consult an expert.

#### 6.2. Environmental precautions:

Recover the product to be re-used. Notify the authorities if the product was spilt into a water course or sewer, or has fallen on the ground or vegetation.

#### 6.3. Cleaning containment methods and material:

Wash with water.

#### 6.4. Reference to other sections:

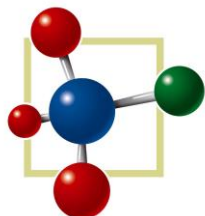
For personal protection see section 8.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling.-

Personal protection measures:	Comply with all safety recommendations and practices according to the best personal industrial hygiene and working practices by using the appropriate protective gloves, glasses and clothing. There are no specific recommendations if the product is used correctly.
Precautionary firefighting measures:	See Section 5. There are no additional precautionary measures.
Preventative measures in the generation of sprays and dust:	During manufacture: use the product according to the best manufacturing practices.
Environmental protection measures:	Always follow the recommended precautions and procedures when using the product.
General work hygiene recommendations:	Do not smoke, drink or eat in working areas, wash your hands after using the product; clear away all protective clothing and equipment before entering the eating areas.

### 7.2. Safe storage conditions, including any possible incompatibilities.-



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Store in a cool, dry and well ventilated space. Store the product only in their original containers. Keep out of the reach of children and animals.

#### 7.3. Specific end uses.-

The only product application is as a fertiliser/organic soil amendment (read the product label).

## SECTION 8: INDIVIDUAL EXPOSURE/PROTECTION CONTROLS

#### 8.1. Control parameters.-

No Environmental Limit Values have been set for any of the components of the product.

No Biological Limit Values have been set for any of the components of the product.

Carcinogenicity: no ingredient listed by IARC, ACGIH, NTP or OSHA has been listed as carcinogenic.

#### 8.2. Exposure controls.-

##### Engineering regulations:

Any premises where the product is being stored or used must be adequately ventilated, cool and dry.

When the product is being used in powder form it is recommended to do so in a space with forced ventilation system.

Comply reasonably with all safety recommendations and practices according to the best personal and occupational hygiene practices by using adequate protective safety gloves, glasses and clothing that completely protects the skin.

##### 8.2.1. Appropriate technical controls:

Use the appropriate ventilation procedures at each step of the process where emissions of vapour or gasses may occur. Ventilate all transport vehicles prior to unloading them.

##### 8.2.2. Individual protection measures, such as personal protection equipment:

**Airways:** All usual precautions in the handling of chemical products must be observed.

**Hands:** Wear protective gloves.

**Eyes:** It is advisable to wear approved chemical protection glasses or a facial screen.

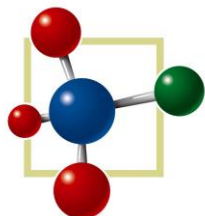
**Skin and body:** Wear adequate protective clothing.

##### 8.2.3. Control of environmental exposure:

Avoid any possible spillages reaching surface waters or sewers.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on the basic physical and chemical properties.-



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SELF-IGNITION POINT: > 250 °C; pH 6.00-7.00 SPECIFIC GRAVITY: 0.85

VAPOUR PRESSURE: \*NE Not applicable

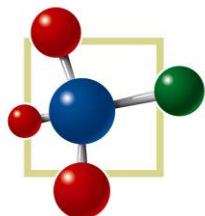
WATER 35-40% APPEARANCE AND ODOUR: solid, black powder with a slight ammonia/amines odour

SOLUBILITY IN WATER AND ORGANIC SOLVENTS: Insoluble

DISSOCIATION CONSTANT: \*NE \*NE: No evidence

### Basic Physical and Chemical Properties:

Physical state:	Solid
Form:	Powder of small/medium size granules, 95 %< 5mm
Colour:	Black
Odour:	Characteristic of ammonia/amines
Odour threshold:	Not determined
pH in 10% solution p/p:	6 to 7.5
Humidity	Max 40%
Dry substance:	48.05%; max 61%
Total organic matter:	41.84% (s.m.s.); max 59.84%
Total Carbon:	30.50%; max 34.71%
Total Nitrogen	2.93%; max. 3.58% (Kjeldahl)
Organic Nitrogen	2.00
C/N ratio	10.40-9.70
Total Phosphorus	1.15% P2O5
Total Potassium	1.08% K2O
Total humic extract (acid humic + fulvic)	21.27% (Kononova; s.m.s.)
Humic acids	17.92% (Kononova; s.m.s.)
Fulvic acids	3.35% (Kononova; s.m.s.)
Electric conductivity	0.8-1.2 (dS/m)
Fusion point/range	Not applicable
Freezing point	Not determined
Self-ignition point/range	Greater than 250 °C
Inflammation point	Not determined
Evaporation rate	Not applicable
Inflammability (solid, gas)	Not determined
Lower explosive limit:	Not explosive
Density	0.65-0.70
Water solubility (20 °C in g/100)	Greater than 0.4 g/ml. Product is not hydrosoluble (Art 2.23 RD506/2013)
Coefficient of distribution-octane/water	Not determined
Self-inflammation temperature	Not determined
Thermal decomposition	From 280 °C
Explosive properties:	None
Comburent properties:	None



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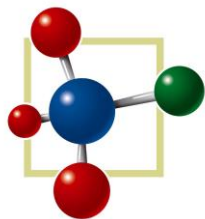
**9.2. Other information.-**

**ANALYSIS (average values)**

METHOD	PARAMETER	RESULT	UNITS
<b>EPA 160.4</b>	Total solids	49.00	%
<b>AOAC 978.02</b>	Total Nitrogen (N)	3.00	%
<b>AOAC 920.03</b>	Ammoniacal Nitrogen (N)	0.90	%
	Organic Nitrogen	2.00	%
<b>AOAC958.01</b>	Phosphorus (P)	1.10	%
	Potassium (K)	1.00	%
<b>ATOMIC Absorption</b>	Iron	50	mg/Kg
	Magnesium (Mg)	30	mg/Kg
	Sodium (Na)	10	mg/Kg
	Chlorides	<0.15	%

**HPLC-FMOC: Perkin Elmer Chromatograph**

Glycine:	80 mg/Kg	Valine:	4 mg/Kg
Proline:	35 "	Hydroxiproline:	35 "
Alanine:	35 "	Aspartic Acid:	60 "
Arginine:	3 "	Glutamic Acid:	20 "
Lysine:	30 "	Leucine:	5 "
Isoleucine:	12 "	Phenylalanine:	10 "
Methionine:	2 "	Serine:	14 "
Extraction:	Molecular biosynthesis		
L-amino acids:	100%		
Toxicity:	Not toxic.		



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#### HEAVY METALS:

As	less than	1.005 ppm (mg/Kg)	Cd	less than	1.398 ppm (mg/Kg)
Co	“ “	1.125 ppm	Hg	“ “	0.060 ppm
Ni	“ “	6.608 ppm	Pb	“ “	1.202 ppm
Cr	“ “	5.269 ppm	Cu	“ “	2.522 ppm

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity.-

Stable under the recommended conditions of storage and handling in their closed original container (see section 7).

### 10.2. Biological and chemical stability.-

**Period of biological caducity: 2 years** under the appropriate storage conditions and in closed container.

Stable for a minimum of 5 years under the recommended conditions of storage and handling in their closed original container (see section 7).

### 10.3. Possibility of hazardous reactions.-

None known.

### 10.4. Conditions that must be avoided.-

Avoid thermic shocks because of the possibility of reducing biological caducity.

Avoid storage at temperatures >40 °C because this accelerates again the fermentation and reduces the period of caducity.

With time, and once the useful biological life (>2 years) has been exceeded, there is a slight change in the colour and no odour, which indicates the loss of the organic humic-biological amendment characteristics of the product.

### 10.5. Incompatible reactions.-

Strong oxidising agents, due to the possibility of producing exothermic reactions.

### 10.6. Hazardous decomposition products.-

None under the normal storage conditions.

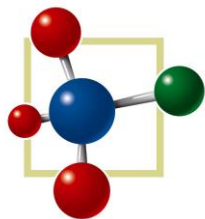
## SECCIÓN 11: TOXICOLOGY INFORMATION

### 11.1. Information on toxicological effects.-

The product is neither dangerous, toxic, nor harmful if taken by mouth or through the skin, nor irritant to the eyes or the skin, therefore it does not have toxicological effects.

However:





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#### 11.1.1. - Acute toxicity

**11.1.2. - When in contact with the skin:** a frequent and prolonged contact could irritate the skin and cause dermatitis.

**11.1.3. - When inhaled:** frequent and prolonged contact could irritate the skin and mucous membranes and cause dermatitis.

**11.1.4. - When in contact with the eyes:** the handling and manipulation of this product under low humidity conditions may irritate the eyes.

#### 11.2. - Harmful health effects (see section 4).

Harmful health effects are not anticipated with this product.

The substance used as bio-activator (active material) in the process of fermentation was developed for medicinal use hence full toxicological tests were carried out, some of which are summarised below:

**In plants:** (1986-1988) Professor Huffacker of the University of California at Davies (UCD) tested AMINOL-FORTE, containing "FACE" as the "substance" or active material, on wheat plants using doses 1000 times greater than those recommended (0.1%), and no toxic or physiologically harmful effects were observed.

**In animals:** (1990-1991) the organisation Life Science Research Ltd (UK) carried out toxicology tests with "FACE" under code "UCL-87" on rats and beagles. No effects were observed. The oral administration to CD rats and beagles, at a rate of 2500 mg/Kg/day and 4000 mg/Kg/day, showed no evidence of toxicity.

(1992) BIOGIR S.A.-Bordeaux (France) on guinea pigs (Magnusson and Kligman test), ACL-28 ("FACE" code) was considered hypoallergenic.

In rabbits the skin tolerance test showed no irritability on the skin.

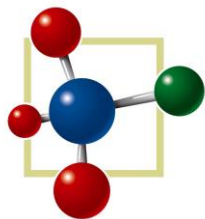
(1991) Research at the Ramon y Cajal hospital (Madrid), endocrinology department, and in the "Carlos III" National Health Institute also in Madrid, the team of Doctor Sanchez-Franco tested "FACE" as part of an investigation on degenerative diseases of the central nervous system by injecting Wilstar rats intramuscularly with the equivalent of 1cc/Kg/week. No toxic effects were observed either on the hematoencephalic barrier when it was crossed, or on the brain cells. On the contrary, an increase in the release of neuropeptides and neurotransmitters was observed which were of a positive therapeutic nature.

**In humans:** (1992) FACE was tested by BIOGIR S.A. in Bordeaux (France) under the ALEC-28 code and in ointment form for dermatological applications. In the skin tolerance test on 45 patients with allergic pathologies, FACE did not show any primary skin irritability effects nor did it have irritability effects in the eyes.

**In cells:** (1988-1990) in primary cerebral cortex neuroblasts cultures, FACE did not show any toxicological effect. On the contrary, several positive neurotropic effects were observed and measured. Spain: in Madrid, Ramon y Cajal hospital, neuro-physiology department, and in the National Health Institute also in Madrid.

(1990) CONTOX S.A., Madrid: "Tests on the cellular transformation (neoplasia) in eukaryotic cell cultures (BHK-21-C13)": the short chain peptides and free amino acids core sample (FACE) submitted by INAGROSA under reference 1201 CT-IC to that laboratory did not show a genotoxic nature in the cellular transformation test (neoplastic cell formation in vitro). March 1990.

#### CONCLUSION:



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Toxicological tests on the active matter FACE, the basis of the bio-stimulant properties of the range of INAGROSA products (NATURCARE, AMINOL-FORTE, FORNUTREN, KADOSTIM and HUMIFORTE), and the bio-activator used in the fermentation of AMINORGAN, manufactured using the said active material, and that are also referred to with identification codes ULC-87, NOMAR-200 and ALEC-28 showed that:

**In vitro:** No damage, toxicity or genotoxicity were observed.

**In vivo:** No toxic effects were observed in oral, intramuscular, intravenous or subcutaneous administration tests on mice, rats, beagles, carried out under international regulations and standardisation protocols for toxicity tests. Therefore the product has been classified as having “no or very low toxicity”.

Doses of up to 4000 mg/Kg administered by mouth did not show any effect on organs such as the brain, liver, spleen, etc., and no animal died. Calculations of DL50 oral or intravenous acute toxicity in mice and rats were above 2000 mg/Kg. No real amount of DL50 was ascertained given that no death occurred during the tests.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity.-

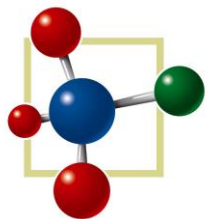
Environmental effects: this product has positive effects on the environment. It is a beneficial product. When the product is released into the soil, the agro-biological activity of the microflora increases, as does the fertility of the soil. This product has a relatively low duration in the soil. See graph in 12.2.

- Environmental toxicity: none known.
- Water toxicity: no negative effect has been observed in any type of aquatic organisms in the short term and in the recommended doses (600 to 1000 Kg/ha). However, used in quantities 5 to 10 times greater and in the long term could produce adverse effects in water.
- Chronic toxicity in fish: used long term and in quantities 3 times greater than the recommended dose could produce adverse effects in eggs, young fish and sturgeon larvae Daphnia Magna.
- Chemical content: it contains no Class I or Class II substances that may damage the Ozone layer, defined by 40CFR82 equal to or greater than 1% Wt.
- Eco-toxicology (Summary. For further information request the complete study from the manufacturer.)

### 12.2. Persistence and degradability.-

The product is biodegradable under aerobic and anaerobic conditions.

The vegetable organic matter it contains, as well as the amino acids and oligopeptides in the bio-activator used in the fermentation process during manufacture are metabolised immediately by the flora in the soil within a period of less than 200 days (see graph). The biotic degradation produces more simple metabolites, which are involved in the biochemical processes of live cells and therefore the product is completely biodegradable.



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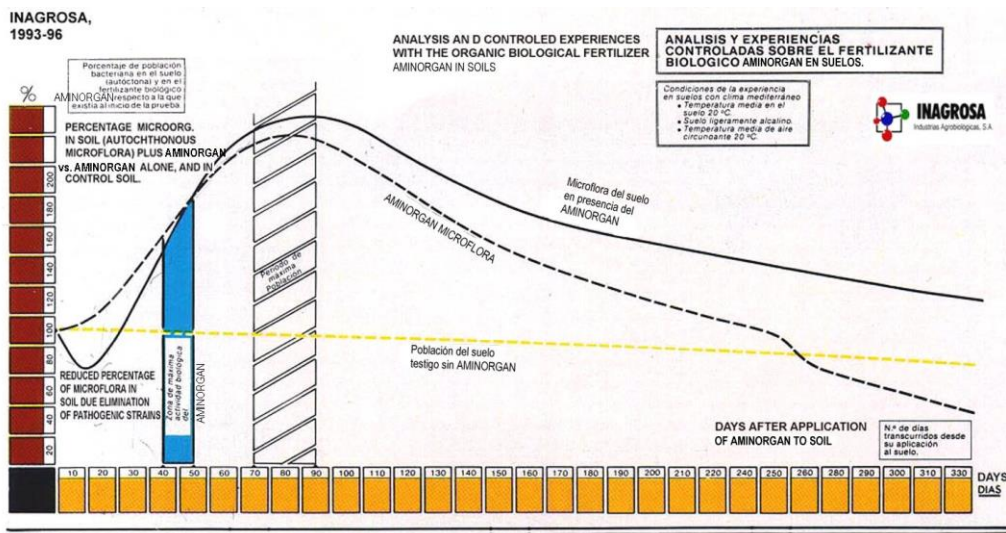
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### 12.3. Bioaccumulation potential.-

It remains in the environment for a short period showing no tendency to the bioaccumulation. (See graph in section 12.2)

The NPK contents, in relative small percentages (see section 9) are transported by amino acids and do not accumulate in the soil.

### 12.4. Mobility in the soil.-

The mobility of the product in the soil is very low (see 12.2 and 12.3)

According to experiments carried out using rigorous methodology, it is due to this fact that even if the product is dumped on the soil in large quantities (up to 5 to 10 Tm/ha, see section 12.1), it does not contaminate either the surface water or the water table. The NPK contents, in relatively small percentages, are transported by the amino acids and do not accumulate in the soil.

### 12.5. Result of the PBT and mPmB evaluation.-

Not applicable

### 12.6. Other adverse effects.-

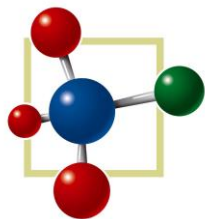
No other adverse effects to the environment are known.

## SECTION 13: CONSIDERATIONS IN RELATION TO DISPOSAL

### 13.1. Methods for the treatment of waste

Do not contaminate the water, fodder, food or seeds during the disposal of the waste. The open dumping and burning of this product in their containers is strictly forbidden.

Given that the acceptable disposal methods and legal requirements may vary in different countries, the relevant official authorities must be contacted prior to the disposal. In the case of spillage see section 6.



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**Do not dump in residual waters**

**13.2 Management of containers holding the substance and of packaging contaminated with other hazardous products:**

Rinse each used container thoroughly three times, pouring the rinsing water into the sprayer tank. The empty container is a hazardous residue, which the user is therefore obliged to take it to the reception point of the integrated management system SIGFITO.

The substance containers (sacks) and other packaging that may have been contaminated with any other hazardous product must be given the same treatment as the hazardous products they contain.

***European/Spanish directives relating to this section on the disposal of waste:***

2001/573 EC, Decision issued by the Council dated 23 July 2001, which modifies Directive 75/442 EC relating to waste. Directive 94/62/EC issued by the European Parliament and the Council dated 20 December 1994, relating to packaging and packaging waste.

In Spain:

11/1997 Act dated 24 April, approving the regulation for the development and implementation of the 11/1997 Act on Packaging and packaging waste. Published in BOE 01/05/1998

MO issued by MAM7304/2002 dated 08 February by which the evaluation and disposal of waste operations and the European waste list were circulated. Published in BOE 19/02/2002

**SECTION 14: INFORMATION RELATING TO TRANSPORT**

**Transport by road (ADR/RID)**

Non-hazardous goods

- 14.1. UN number: not applicable
- 14.2. United Nations official transport designation: not applicable
- 14.3. Transport hazard class (es): not applicable
- 14.4. Packaging group: Group III
- 14.5. Environmental hazards: not applicable

**Transport by water on vessel (IMDG)**

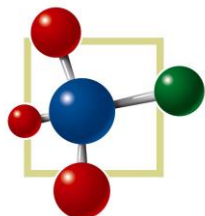
Non-hazardous goods

- 14.1. UN number: not applicable
- 14.2. United Nations official transport designation: not applicable
- 14.3. Transport hazard class (es): not applicable
- 14.4. Packaging group: Group III
- 14.5. Environmental hazards: not applicable

**Transport by air (IATA-DGR)**

Non-hazardous goods

- 14.1. UN number: not applicable
- 14.2. United Nations official transport designation: not applicable



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**14.3. Transport hazard class (es):**

not applicable

**14.4. Packaging group:**

Group III

**14.6. Special precautions for users.-**

None

**14.7. Transport in bulk in accordance with Appendix II of the MARPOL Agreement 73/78 and the IBC Code**

Not applicable

## SECTION 15: REGULATORY INFORMATION

**15.1. Regulation and legislation in matters of health, safety and the environment specific for the substance or mixture.-**

The substance is not subject to any specific European prescriptions in relation to the protection of health and the environment.

**15.2. Evaluation of the chemical safety.-**

A chemical safety report has been carried out.

## SECTION 16: OTHER INFORMATION

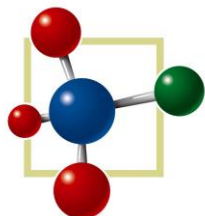
**Methods for the evaluation of the information referred to in article 9 of the Regulation (EC) N° 1272/2008 used for classification purposes:**

Classification based on studies and tests on the active substance.

**16.1. Other information**

Full forms of abbreviations

ADR:	European Agreement Concerning the International Carriage of Dangerous Goods by Road
IMDG:	International Maritime Code for Dangerous Goods.
CL50:	Lethal Concentration, 50%
CE50:	Effective Dose, 50%
RID:	Regulations concerning the International Carriage of Dangerous Goods by Rail.
IATA-DGR:	International Air Transport Association-Dangerous Goods Regulation.
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals
OSHA:	Occupancy Security & Health Agency-USA
FRC:	Federal Regulation Code-USA
PEL:	Permissible Exposure Limit
WHMIS:	Hazardous Materials Information System



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**CAS:** Chemical Abstract Service  
**VOC:** Volatile Organic Cleaner  
**STEL:** Short Term Exposure Limit  
**TWA:** Time Weighted Average  
**TLV:** Threshold Limit Value  
**NTP:** National Toxicology Programme-USA

The information provided in the Safety Information Sheet is the most up-to-date at the time of its publication. The information given is intended only as a safety guide in the handling, use, processing, storing, transport, disposal and release of the product it describes and it must not be considered as a quality guarantee or specification. The information refers only to the specified material and may not be valid for the said material when used in conjunction either with any other substances or processes, unless indicated in the text.

Changes since the last version have been highlighted at the margin if they refer to important safety information, otherwise they are not highlighted. This version nº 3 replaces all other previous versions.

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