

Safety Data Sheet

In accordance with Commission Regulation (EU) No 2015/830



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Tecnifol Ferro Sólido

SECTION 1		Identification of the substance/mixture and of the company/undertaking
1.1	Product identifier	
	Trade name	Tecnifol Ferro Sólido
	Code	DS-109
	Chemical name	-
	Chemical formula	-
	Index Number	Not applicable
	EINECS Number	Not applicable
	CAS Number	Not applicable.
	Registration Number	It is a mixture and therefore has no registration number.
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Application of the substance / the mixture	Plant nutrition
	Uses advised against	Others than those indicated.
1.3	Details of the supplier of the safety data sheet	ADP – Fertilizantes, S.A. Estrada Nacional nº 10 2615-907 Alverca Portugal (00351) 210 300 400 e-mail: fdsinfo@grupotertiberia.com
1.4	Emergency telephone number	SOPAC - Sociedade Produtora de Adubos Compostos S.A.- +351 265030496 (Only available during office hours; Monday-Friday; 09:00-18:00)
SECTION 2		Hazards identification
2.1	Classification of the substance or mixture according Regulation (EC) n° 1272/2008 (CLP)	GHS07 Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation.
2.2	Label elements	

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	Hazard pictograms	
	Signal word	Attention
	Hazard-determining components of labelling	Ferrous sulphate heptahydrate
	Hazard statements	H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation.
	Precautionary statements	P102 Keep out of reach of children. P270 Do not eat, drink or smoke when using this product. P264 Wash ... thoroughly after handling P280 Wear protective gloves/protective clothing/eye protection/face protection. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P314 Get medical advice/attention if you feel unwell. P501 Dispose of contents/container to ...
	Additional information	Not applicable.
	Supplemental information on the label	Not applicable.
	Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.
	Special packaging requirements	Not applicable.
	Containers to be fitted with child-resistant fastenings	Not applicable.
	Tactile hazard warning	Not applicable.
2.3	Other hazards	
	Other hazards which do not result in classification	None known.
	Results of the PBT and vPvB assessment	Not applicable. Not applicable.

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SECTION 3 Composition/information on ingredients							
3.1	Substances						
	Not applicable.						
3.2	Mixtures						
	Name	Index number	CE number	CAS number	Registration number	%(P/P)	Classification Regulation CE N° 1272/2008
	Lignosulphonic acid	-	617-129-9	8062-15-5	-	50-75%	Not classified.
	Ferrous sulphate heptahydrate	026-003-01-4	231-753-5	7782-63-0	-	25%	Acute Tox. 4 H302; Skin Irrit. 2 H315; Eye Irrit. 2 H319 Skin Irrit.2; H315: C ≥ 25 %
	Additional indications		For the wording of the listed hazard phrases refer to section 16.				
SECTION 4 First aid measures							
4.1	Description of first aid measures						
	General information		No action should be taken that involves personal risk or without proper training. Avoid direct mouth-to-mouth resuscitation, as this can be dangerous for the person providing assistance. Use other methods for resuscitation, preferably oxygen or compressed air equipment. Treat according to the following indications:				
	Inhalation		Fresh air and rest.				
	Ingestion		Drink plenty of water. Consult a doctor immediately.				
	Skin contact		Rinse immediately with plenty of water.				
	Eye contact		Important! Rinse immediately with water for at least 15 minutes, keeping the eyelids wide open.				
4.2	Most important symptoms and effects, both acute and delayed						
	Eye contact		Causes eye irritation. This irritation may cause redness and swelling of the eyes.				
	Inhalation		No known significant effects or critical hazards.				
	Skin contact		Redness, burn, pain, blistering.				
	Ingestion		Harmful if swallowed.				
4.3	Indication of any immediate medical attention and special treatment needed						
	No action involving personal risk or without adequate training should be taken. Avoid direct mouth-to-mouth resuscitation, as it can be dangerous for the person providing the help. Use other methods for resuscitation, preferably oxygen or compressed air equipment. Treat according to the following indications:						

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	Notes to physician	Treat symptomatically.
	Specific treatments	There is no specific treatment. It depends on specialized medical observation.
SECTION 5 Firefighting measures		
5.1	Extinguishing media	
	The product is not flammable.	
	Suitable extinguishing agents	Water spray, foam, dry powder or carbon dioxide.
	Unsuitable extinguishing agents for safety reasons	High volume water jet.
5.2	Special hazards arising from the substance or mixture	
	<p>The solution is not flammable.</p> <p>Ammonia may be released from solution but in free air the ammonia-air mixture is unlikely to be within flammable limits.</p> <p>In confined spaces the flammable limits may be reached.</p> <p>A closed container containing ammonia solution may explode if exposed to fire or heated.</p>	
	Hazardous thermal decomposition products	Sulphur oxides (SO _x) Carbon monoxide may be formed in case of incomplete combustion.
5.3	Advice for firefighters	
	<p>Open warehouse doors and windows for maximum ventilation.</p> <p>Fire-fighting personnel should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face mask operating in positive pressure mode. Clothing for fire-fighting personnel (including helmets, protective boots) should conform to European standard EN 469 and gloves to EN 659. It should provide a basic level of protection for chemical incidents and should be fire resistant. The facility shall have sufficient protective equipment available to deal with fires.</p>	
SECTION 6 Accidental release measures		
6.1	Personal precautions, protective equipment and emergency procedures	

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	<p>To avoid projections of toxic liquid by overflowing from both containers and tanks during loading or unloading operations, the following spill prevention measures shall be adopted:</p> <p>(a) In receptacles: The protection system on receptacles shall depend on the type of installation; so as to ensure that there is no overfilling of receptacles by means of two independent safety features; e.g. level indicators and independent high level alarm. The shut-off valve may be either automatic or manually operated.</p> <p>In port installations, constant observation of the container level by an operator connected by radiotelephone or other effective means of communication with the operator of the shut-off valve is permitted.</p> <p>(b) In tanks: The provisions laid down in the Royal Decree on the loading/unloading of dangerous goods shall be taken into account. When open-mouth loading is carried out, a diving tube shall be used to the bottom of the tank.</p> <p>(c) In hoses and loading arms: Dripping at the ends of the hoses and loading arms shall be avoided. If it does occur, it shall be adequately collected.</p>	
	<p>For non-emergency personnel</p>	
	<p>Avoid contact with skin, eyes and respiratory tract. Avoid generation and spread of dust.</p>	
	<p>For emergency responders</p>	
	<p>With proper training, self-contained breathing apparatus (SCBA) and protective clothing for structural firefighters used in conjunction with water spray will provide limited protection in outdoor emissions for short-term exposure.</p>	
<p>6.2</p>	<p>Environmental precautions</p>	
	<p>In case of accidental spills and leaks avoid dispersal of spilled material, runoff and contact with soil, watercourses (surface and groundwater), drains and sewers. Inform the competent authorities if the product has caused adverse impacts (sewers, watercourses, soil or air).</p>	
<p>6.3</p>	<p>Methods and material for containment and cleaning up</p>	
	<p>Remove spillage mechanically or with a suction device equipped with a high efficiency filter. Collect in a container for recovery or incineration. Containers with collected spillage should be properly labelled with correct contents and hazard symbol.</p>	
<p>6.4</p>	<p>Reference to other sections</p>	
	<p>See Section 1 for information on contact in case of emergency. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.</p>	
<p>SECTION 7</p>	<p>Handling and storage</p>	
<p>7.1</p>	<p>Precautions for safe handling</p>	
	<p>Technical precautionary measures</p>	<p>Wear appropriate personal protective equipment. Avoid contact with eyes, skin or clothing. Do not breathe vapors or mist. Do not ingest. Avoid release to the environment. Keep in original container or approved alternative made of a compatible material, kept tightly closed when not in use. Empty containers retain product residues and may be hazardous. Do not reuse container. Avoid handling incompatible substances, see section 7.2. and 10.</p>

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	Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.		
7.2	Conditions for safe storage, including any incompatibilities			
	Spills may be stored as chemical waste in an approved area. Keep in a cool, dry, ventilated area and in closed containers. Keep separate from food, feed, fertilizers and other sensitive materials.			
7.3	Specific end use(s)			
	Use only as described in section 1.2.			
SECTION 8	Exposure controls/personal protection			
8.1	Control parameters			
	Occupational exposure limits	There is no limit of occupational exposure value.		
	Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of ventilation or other control measures and/or the need to use respiratory protective equipment. Monitoring standards such as the following may be used as reference: European Standard EN 689 (Atmospheres in the workplace. Guidelines for the evaluation of inhalation exposure of chemical agents for comparison with limit values and measurement strategy), European Standard EN 14042 (atmospheres in the workplace. Guidelines for the application and use of procedures to assess exposure to chemical and biological agents) European Standard EN 482 (atmospheres in the workplace. General requirements for the performance of procedures for measuring chemical agents). National guidance documents on methods for the determination of hazardous substances should also be used as a reference.		
	Derived effect levels	No DELs available.		
	Predicted effect concentrations	No PECs available.		
	Ingredients with limit values that require monitoring at the workplace	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.		
DNEL				
Substance				7782-63-0
				Iron sulphate
	Inhalation	Long-term	Systemic	Insufficient hazard data available (more information needed)
			Local	Insufficient hazard data available (more information needed)

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Industrial/Professional worker	(mg/m ³)	Short-term	Systemic	Low risk (no derived threshold)	
			Local	Low risk (no derived threshold)	
	Dermal (mg/kg pc/día)	Long-term	Systemic	2,8 mg/kg bw/day	
			Local	Low risk (no derived threshold)	
		Short-term	Systemic	No risk identified	
			Local	Low risk (no derived threshold)	
	Ocular (mg/kg pc/día)	Long-term	Systemic	Not available	
			Local	Not available	
		Short-term	Systemic	Not available	
			Local	Medium risk (no threshold derived)	
	Consumer	Inhalation (mg/m ³)	Long-term	Systemic	Insufficient hazard data available (more information needed)
				Local	Insufficient hazard data available (more information needed)
Short-term			Systemic	Low risk (no derived threshold)	
			Local	Low risk (no derived threshold)	
Dermal (mg/kg pc/day)		Long-term	Systemic	1,4 mg/kg bw/day	
			Local	Low risk (no derived threshold)	
		Short-term	Systemic	No risk identified	
			Local	Low risk (no derived threshold)	
Oral (mg/kg pc/day)		Long-term	Systemic	0,28 mg/kg bw/day	
			Local	No risk identified	
		Short-term	Systemic	20 mg/kg bw/day	
			Local	No risk identified	
Ocular (mg/kg pc/day)		Long-term	Systemic	Not available	
			Local	Not available	
		Short-term	Systemic	Medium risk (no limit obtained)	

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		term	Local	Medium risk (no limit obtained)
PNEC				
Substance			7782-63-0	
			Iron sulphate	
Fresh water (mg/L)			No risk identified	
Salt water (mg/L)			No risk identified	
STP (mg/L)			No risk identified	
Fresh water sediment (mg/L)			No risk identified	
Salt water sediment (mg/L)			No risk identified	
Air (mg/L)			No risk identified	
Soil (mg/L)			No risk identified	
Predators (secondary poisoning) (mg/L)			No bioaccumulative potential	
Components with biological limit values		Non-existent.		
Additional indications		The Occupational exposure limits lists valid during the making were used as basis.		
8.2	Exposure controls			
Appropriate engineering controls		<p>As a general rule, access shall be prohibited to unauthorised personnel. The prohibition shall be posted on a clearly visible and legible sign.</p> <p>Ventilation. Storerooms and loading and unloading or transfer facilities shall be designed with natural or forced ventilation so that the risk of exposure of workers is adequately controlled. For this purpose, the design shall take special account of the characteristics of the vapours to which they may be exposed and of the source of the emissions, their collection at source and their possible transmission to the environment of the storage or installation.</p> <p>Where they are located inside buildings, ventilation shall be channelled to a safe place outside through dedicated ducts, taking into account the permissible emission levels to the atmosphere. Where forced ventilation is used, it shall be provided with an alarm system in case of failure.</p> <p>Premises with pits or basements where vapours may accumulate shall have adequate forced ventilation in such pits or basements to prevent the accumulation of vapours.</p>		
Personal protective		General protection and hygiene measures	<p>Wash completely the hands, forearms and face after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.</p> <p>Use the appropriate techniques to remove the contaminated clothes. Wash the contaminated clothes before reusing. Verify that the eyes washing stations and safety showers were near to working stations.</p>	
		Respiratory protection	<p>If exposure levels exceed or may exceed the recommended exposure limits, use suitable breathing apparatus e.g. mouth-face masks equipped with type K filters, self-contained breathing apparatus according to EN 136, 140 or 405.</p>	

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	measures, such as personal protective equipment	Hand protection	Chemical protective gloves According to standards: EN 374-1:2003 - EN 374-3:2003/AC:2006 - EN 420:2003+A1:2009. Replace gloves at any sign of deterioration.
		Glove material	PVC gloves
		Other	Use personal protective equipment during use and handling of the product.
		Eye/face protection	Use personal protective equipment during use and handling of the product.
		Thermal hazards	Not available.
	Environmental exposure controls	Under EU environmental protection legislation it is recommended to avoid release of the product and its packaging into the environment. For further information see section 6.2.	
SECTION 9 Physical and chemical properties			
9.1 Information on basic physical and chemical properties			
	Appearance	Dust	
	Colour	Light brown	
	Odour	Characteristic	
	Odour threshold	Not available.	
	pH	3 (10%)	
	Melting point/freezing point	130 ° C	
	Initial boiling point and boiling range	Undetermined	
	Flash point	Not available	
	Evaporation rate	Not available	
	Flammability	Non-flammable	
	Upper/lower flammability or explosive limits		
	Lower	Not available.	
	Upper	Not available.	
	Vapour pressure	Not available.	
	Vapour density	Not available.	
	Relative density	400 kg/m ³	
	Solubility		

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	In water	Fully miscible.				
	Partition coefficient: n-octanol/water	Not applicable				
	Auto-ignition temperature	Not available.				
	Decomposition temperature	Not determined.				
	Viscosity					
	Kinematic	Not available				
	Dynamic	Not available				
	Explosive properties	The product is not explosive				
	Oxidising properties	Not available				
9.2	Other information	No additional information No further relevant information available.				
SECTION 10 Stability and reactivity						
10.1	Reactivity	May react with strong oxidants and strong acids or bases.				
10.2	Chemical stability	Chemically stable under the indicated storage, handling and use conditions.				
10.3	Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions occur.				
10.4	Conditions to avoid	None known.				
10.5	Incompatible materials	None known.				
10.6	Hazardous decomposition products	Nitrogen oxides (NOx) (in case of fire).				
SECTION 11 Toxicological information						
11.1	Information on toxicological effects					
	Acute toxicity					
	Component	CAS number	Method	Species	Route	Result
	Iron sulphate	7782-63-0	OECD TG 423 EPA OPP 81-3 OECD TG 402	Rat Rat Rat	Oral Inhalation Cutaneous	DL50 500 mg/kg pc. Category 4. DL50 1 100 mg/m ³ air DL50 > 2000 mg/kg bw
	Harmful if swallowed.					
	Skin corrosion/irritation					
	Component	CAS number	Method	Species	Route	Result
	Iron sulphate	7782-63-0	OECD 404	Rabbit	Cutaneous	Irritant

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Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Component	CAS number	Method	Species	Route	Result
Iron sulphate	7782-63-0	OECD 405	Rabbit	Ocular	Irritant

Causes serious eye damage.

Respiratory or skin sensitisation

Component	CAS number	Method	Species	Route	Result
Iron sulphate	7782-63-0	-	Mouse	Cutaneous	Non sensitising

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Component	CAS number	Method	Species	Result
Iron sulphate	7782-63-0	OECD 471 Non specified	Bacterias Chromosomal aberration	Non mutagenic

Based on available data, the classification criteria are not met.

Carcinogenicity

Component	CAS number	Method	Species	Route	Result
Iron sulphate	7782-63-0	-	-	-	Not available

Based on available data, the classification criteria are not met.

Reproductive toxicity

Component	CAS number	Method	Species	Route	Result
Iron sulphate	7782-63-0	OECD 422	Rat	Oral	NOAEL >200 mg/kg bw/day

Based on available data, the classification criteria are not met.

STOT- single exposure

Component	CAS number	Method	Species	Route	Result
Iron sulphate	7782-63-0	-	-	-	Not available

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Component	CAS number	Method	Species	Route	Result
Iron sulphate	7782-63-0	OECD 422	Rat	Oral	NOAEL >200 mg/kg bw/day

Based on available data, the classification criteria are not met.

Aspiration hazard

Component	CAS number	Result
Iron sulphate	7782-63-0	-

Based on available data, the classification criteria are not met.

SECTION 12

Ecological information

12.1

Toxicity

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Aquatic toxicity					
Component	Nº CAS		Fish	Crustacea	Algae
Iron sulphate	7782-63-0	Short term	No relevant effects	No relevant effects	No relevant effects
		Long term	No relevant effects	No relevant effects	No relevant effects
Terrestrial toxicity					
Component	Nº CAS	Macro-organism	Micro-organism	Terrestrial plants	Other organisms
Iron sulphate	7782-63-0	Not available	Not available	Not available	-
Microbiological activity in wastewater treatment plants					
Component	Nº CAS	Toxicity to aquatic micro-organisms			
Iron sulphate	7782-63-0	No relevant effects			
12.2	Persistence and degradability				
Component	Nº CAS	Degradation			
Iron sulphate	7782-63-0	Hydrolysis	The behaviour of Fe ²⁺ and Fe ³⁺ metal ions in solution depends on different conditions. Key conditions influencing the behaviour of iron are oxygen content, pH and the presence of potential ligand anions with which cationic iron could associate. Hydrolysis is relevant for iron and forms precipitating hydroxylates. It is estimated that a hydrolysis value of 70 % and 90 % removal from solution is reached in 19 hours and 36 hours respectively.		
		Photolysis	Not scientifically necessary		
		Biodegradation	Not necessary as the substance is inorganic		
12.3	Bioaccumulative potential				
Component	Nº CAS	Octanol-water partition coefficient (K _{ow})	Bioaccumulation factor (BFC)	Observations	
Iron sulphate	7782-63-0	-	-	It is an inorganic substance therefore has a low potential for accumulation	
12.4	Mobility in soil				
Component	Nº CAS	Result			
Iron sulphate	7782-63-0	Being an inorganic substance it has a low adsorption potential.			
12.5	Results of PBT and vPvB assessment				
Not applicable.					
12.6	Other adverse effects				

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Significative effects o critics risks are not known.

SECTION 13 Disposal considerations					
13.1 Waste treatment methods					
	Methods of disposal	<p>Waste management (disposal and recovery) : Consult the authorised waste manager for recovery and disposal operations, in accordance with Annex 1 and Annex 2 (Directive 2018/851/EC, Law 7/2022 of 8 April, on waste and contaminated soil for a circular economy).. Packaging: According to codes 15 01 (Commission Decision 2014/955/EU), if the packaging has been in direct contact with the product, it should be treated in the same way as the product itself, otherwise it should be treated as non-hazardous waste. Discharge into waste water is not recommended. See section 6.2. Waste management provisions : In accordance with Annex II of Regulation (EC) No 1907/2006 (UK REACH), the Community or national provisions on waste management are presented. Community legislation: Directive 2018/851/EC, Commission Decision 2014/955/EU, Regulation (EU) no. 1357/2014 and the national legislation.</p>			
	Hazardous waste code	HP4: Irritant - skin irritation and eye damage HP6: Acute Toxicity			
SECTION 14 Transport information					
	Regulatory information	ADR/RID	ADNR	IMDG	IATA
14.1	UN number	-			
14.2	UN proper shipping name	-	-		
14.3	Transport hazard class(es)				
	Class	-	-		
	Label	-	-		
14.4	Packing group	-			
14.5	Environmental hazards	Product not classified as hazardous to the aquatic environment.			
14.6	Special precautions for user	Not defined. See the relevant information, such as handling, in other sections of this document.			
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.			
SECTION 15 Regulatory information					
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture					
	GB Regulation (EC) No 1907/2006 (REACH)	This product complies with the UK REACH Regulation.			
	Named dangerous substances - ANNEX VI (CLP)	Contains iron sulphate heptahydrate with index number 026-003-01-4.			

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	SEVESO Category	Not applicable.
	Qualifying quantity (tonnes) for the application of lower-tier requirements	Not applicable.
	Qualifying quantity (tonnes) for the application of upper-tier requirements	Not applicable.
	Regulation (EC) No 1907/2006 - ANNEX XVII	Not applicable.
15.2	Chemical safety assessment	
	A chemical safety assessment has not been carried out since it is a mixture (exempt from registration).	
SECTION 16 Other information		
	Relevant phrases	H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation.
	Abbreviations and acronyms	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road). STP: Sewage treatment plant. OECD: Organisation for Economic Co-operation and Development. IMDG: International Maritime Code for Dangerous Goods. IATA: International Air Transport Association. GHS: Globally Harmonised System of Classification and Labelling of Chemicals. CAS: Chemical Abstracts Service (division of the American Chemical Society). DNEL: Derived No-Effect Level (UK REACH). PNEC: Predicted No-Effect Concentration (UK REACH). Ox. Sol. 3: Oxidizing solids – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
	Data compared to the previous version altered	It is the first version.
	References	This safety data sheet has been prepared in accordance with: - ANNEX II: Guidance for the preparation of Safety Data Sheets of Regulation (EC) No 1907/2006 (Regulation (EU) 2020/878) based on the data included in the chemical safety report of registered substances. - Guidance available on the European Chemicals Agency (ECHA) website: (http://echa.europa.eu/). - Guidance for the compilation of safety data sheets for fertilizer materials (www.fertilizerseurope.com).
	Methods used for the classification of the mixture (Article 9 of Regulation (EC) No 1272/2008)	Classification and Labeling in accordance with the principle of extrapolation of Regulation No. 1272/2008 (CLP).

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Advice on any training appropriate for workers to ensure protection of human health and the environment

Minimum training in the prevention of occupational hazards is recommended for personnel who will handle this product, in order to facilitate the understanding and interpretation of this safety data sheet, as well as the product label.

The information contained in this safety data sheet is provided in good faith and its accuracy is based on knowledge of the product at the time of publication. The information presented is only intended to describe the product from the point of view of human and environmental protection and safety, and therefore cannot be regarded as product specifications. It does not imply acceptance of any commitment or legal responsibility on the part of the Company, for the consequences of its use or misuse in any circumstances. The information provided is considered accurate and current at the time of this edition, referring only to the product and may not be valid in compositions or formulations with other products. The responsibility for its use belongs to the users.