

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

NPK FN 7-14-14

Version 1 Date of compilation: 14/02/2023



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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING.

1.1 Product identifier.

Product Name:	NPK FN 7-14-14
UFI:	G850-S0E3-K003-55AQ
Index number of the list in Annex VI of the CLP:	Not on the list.
ID number according to the C&L catalog:	Not applicable.
CAS Number:	As it is not a chemical substance, but a product prepared from various substances, this product does not have any CAS registration number associated with it.
EC number:	Not applicable.
REACH registration number:	Not applicable.

1.2 Relevant identified uses of the substance or mixture and uses advised against.

Fertilizer
As intermediate product for further formulation.
Uses at Industrial sites
Uses by professional workers.

Uses advised against:

Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

Company:	FERTISAC, S.L.
Address:	BARRIADA DE LA ESTACIÓN, S/N
City:	18230 - ATARFE
Province:	GRANADA
Telephone:	958436512
E-mail:	fertisac@fertisac.es
Web:	www.fertisac.es

1.4 Emergency telephone number: 112 (Available 24 hours)

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the substance or mixture.

In accordance with Regulation (EC) No 1272/2008:
Eye Dam. 1 : Causes serious eye damage.
Repr. 1A : May damage fertility or the unborn child.

2.2 Label elements.

Labelling in accordance with Regulation (EC) No 1272/2008:

Pictograms:



Signal Word:

Danger

Hazard statements:

H318	Causes serious eye damage.
H360F	May damage fertility.

Precautionary statements:

P201	Obtain special instructions before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P310 Immediately call a POISON CENTER/doctor/...
P405 Store locked up.
P501 Dispose of contents/container according to applicable legislation.

Contains:
Calcium sodium Borate
Superphosphates

2.3 Other hazards.

The mixture does not contain substances classified as PBT.
The mixture does not contain substances classified as vPvB.
The mixture does not contain any endocrine disrupting properties substances.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Not Applicable.

3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

Identifiers	Name	Concentrate	(*)Classification - Regulation (EC) No 1272/2008	
			Classification	Specifics concentration limits and Acute toxicity estimate
CAS No: 8011-76-5 EC No: 232-379-5	Superphosphates	3 - 25 %	Eye Dam. 1, H318	-
CAS No: 7778-18-9 EC No: 231-900-3	[2] calcium sulfate	< 10 %	-	-
CAS No: 7487-88-9 EC No: 231-298-2	Magnesium sulphate	< 2.5 %	Acute Tox. 4, H312 - Acute Tox. 4, H332 - Acute Tox. 4, H302	-
CAS No: 1319-33-1 Registration No: Exempt	Calcium Sodium Borate	< 10 %	Eye Irrit. 2, H319 - Repr. 1A, H360F	-

(*) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

* See Regulation (EC) No. 1272/2008, Annex VI, section 1.2.

[2] Substance with a national workplace exposure limit (see section 8.1).

SECTION 4: FIRST AID MEASURES.

In cases of doubt, or when symptoms of discomfort persist, seek medical attention. Never give anything orally to people who are unconscious.

4.1 Description of first aid measures.

Delayed effects may occur after the exposure to the product.

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Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

Eye contact.

Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance. Don't let the person to rub the affected eye.

Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed.

Corrosive Product, contact with eyes or skin can cause burns; ingestion or inhalation can cause internal damage, if this occurs immediate medical assistance is required.

Long-term chronic exposure may result in injury to certain organs or tissues.

Contact with eyes may cause irreversible damage.

4.3 Indication of any immediate medical attention and special treatment needed.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Keep the person comfortable. Turn him/her over to the left side and stay there while waiting for medical care.

SECTION 5: FIREFIGHTING MEASURES.

The product is NOT classified as flammable, in case of fire the following measures should be taken:

5.1 Extinguishing media.

Suitable extinguishing media:

Extinguisher powder or CO₂. In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2 Special hazards arising from the substance or mixture.

Special risks.

Exposure to combustion or decomposition products can be harmful to your health.

It could produce toxic gases, NO_x, CO₂, CO, P₂O₅ and SO_x.

5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways.

Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

Avoid creating dust conditions and prevent its dispersion by the wind.

For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.

Product not classified as dangerous to the environment, avoid as far as possible any spillage.

Prevent material from entering waterways and the sanitary sewer system. If the spill is accidental or wash water enters drains or watercourses inform the local authority.

6.3 Methods and material for containment and cleaning up.

Sweep the spilled material into a clean, labelled container for titration or disposal, in accordance with local and national regulations (see section 13).

6.4 Reference to other sections.

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For exposure control and individual protection measures, see section 8.
For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers in a dry and well-ventilated place, far from sources of heat, humidity and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

The product is not affected by Directive 2012/18/EU (SEVESO III).

7.3 Specific end use(s).

NPK fertilizer with rock phosphate and boron for all types of crops and direct application to the soil. Recommended for crops with boron deficiencies or needs.

It can also be used as an intermediate product for the production of other fertilizers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m ³
calcium sulfate	7778-18-9	Éire [1]	Eight hours		10
			Short term		
		United States [2] (Cal/OSHA)	Eight hours		10 (Total dust) 5 (Respirable fraction)
			Short term		
		United States [3] (NIOSH)	Eight hours		10 (Total dust) 5 (Respirable fraction)
			Short term		
		United States [4] (OSHA)	Eight hours		15 (Total dust) 5 (Respirable fraction)
			Short term		

[1] According Code of Practice for the Safety, Health and Welfare at Work (Chemicals Agents) Regulations adopted by Health and Safety Authority (HSA).

[2] California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).

[3] National Institute for Occupational Safety and Health. NIOSH Recommendations for occupational safety and health, Compendium of Policy Documents and Statements, January, 1992, DHHS (NIOSH) Publication No. 92-100.

[4] Occupational Safety and Health Administration, United States Department of Labor. Permissible Exposure limits (PELs), California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).

The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
Superphosphates CAS No: 8011-76-5 EC No: 232-379-5	DNEL (Workers)	Inhalation, Chronic, Systemic effects	3,1 (mg/m ³)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

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8.2 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	100 %
Uses:	Fertilizer As intermediate product for further formulation. Uses at Industrial sites Uses by professional workers.
Breathing protection:	
PPE:	Filter mask for protection against gases and particles.
Characteristics:	«CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.
CEN standards:	EN 136, EN 140, EN 405
Maintenance:	Should not be stored in places exposed to high temperatures and damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves in the face adaptor.
Observations:	Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.
Filter Type needed:	A2
Hand protection:	
PPE:	Protective gloves against chemicals.
Characteristics:	«CE» marking, category III.
CEN standards:	EN 374-1, En 374-2, EN 374-3, EN 420
Maintenance:	Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives.
Observations:	Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Always use with clean, dry hands.
Material:	PVC (polyvinyl chloride)
Breakthrough time (min.):	> 480
Material thickness (mm):	0,35
Eye protection:	
If the product is handled correctly, no individual protection equipment is necessary.	
Skin protection:	
PPE:	Protective clothing.
Characteristics:	«CE» marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements.
CEN standards:	EN 340
Maintenance:	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.
Observations:	The protective clothing should offer a level of comfort in line with the level of protection provided in terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use.
PPE:	Work footwear.
Characteristics:	«CE» marking, category II.
CEN standards:	EN ISO 13287, EN 20347
Maintenance:	This product adapts to the first user's foot shape. That is why, as well as for hygienic reasons, it should not be used by other people.
Observations:	Work footwear for professional use includes protection elements aimed at protecting users against any injury resulting from an accident

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Physical state:	Solid
Colour:	brown/white/grayish/reddish or colored with dyes
Odour:	Odourless
Odour threshold:	Not applicable
Melting point:	Not applicable
Freezing point:	Not applicable
Boiling point or initial boiling point and boiling range:	Not applicable

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Flammability:	No inflammable
Lower explosion limit:	Not applicable
Upper explosion limit:	Not applicable
Flash point:	Not applicable
Auto-ignition temperature:	Not applicable
Decomposition temperature:	>100 °C
pH:	5-6 (10%)
Kinematic viscosity:	Not applicable
Solubility:	Not available
Hydrosolubility:	Not applicable
Liposolubility:	Not available
Partition coefficient n-octanol/water (log value):	Not applicable
Vapour pressure:	Not applicable
Absolute density:	980-1000 kg/m ³ (calculation/estimation)
Relative density:	0,303 (Estimation based on the indication of the Regulation (CE) N°1272/2008.)
Relative vapour density:	Not available
Particle characteristics:	1-5mm

9.2 Other information

Information with regard to physical hazard classes

Explosives:

Sensitivity to shock:	Not available
Effect of heating under confinement:	Not available
Effect of ignition under confinement:	Not available
Sensitivity to impact:	Not available
Sensitivity to friction:	Not available
Thermal stability:	Not available
Explosive properties:	Not explosive

Oxidizing solids:

Spontaneous ignition when mixed with cellulose:	Not available
Oxidizing properties:	Not Oxidizing.

Other safety characteristics

Mechanical sensitivity:

Exothermic decomposition energy:	Not available
Sensitivity to impact:	Not available
Sensitivity to friction:	Not available

Self-accelerating polymerisation temperature: Not available

Formation of explosible dust/air mixtures:

Lower explosion limit / minimum explosible concentration:	Not available
Minimum ignition energy:	Not available
Deflagration index (Kst):	Not available
Maximum explosion pressure:	Not available

Acid/alkaline reserve:	Not available
Evaporation rate:	Not available
Miscibility:	Not available
Conductivity:	Not available
Corrosiveness:	Not available
Gas group:	Not available
Redox potential:	Not available
Radical formation potential:	Not available
Photocatalytic properties:	Not available
Viscosity:	Not applicable
Dropping point:	Not applicable
Blink:	Not applicable

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

The product does not present hazards by their reactivity.

10.2 Chemical stability.

Unstable in contact with:

- Strong bases and acids.

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10.3 Possibility of hazardous reactions.

Under certain conditions, a dangerous reaction with incompatible materials may occur (see section 10.5).

10.4 Conditions to avoid.

- Avoid contact with strong acids and bases.
- Avoid heating and high temperatures.

10.5 Incompatible materials.

Avoid the following materials:

- Strong bases and acids.

10.6 Hazardous decomposition products.

Depending on conditions of use, can be generated the following products:

- Corrosive vapors or gases (NO_x, CO_x, CO, P₂O₅ and SO_x).

SECTION 11: TOXICOLOGICAL INFORMATION.

11.1 Information on hazard classes as defined in Regulation (EC) N° 1272/2008.

Splatters in the eyes can cause irritation and reversible damage.

Toxicological information about the substances present in the composition.

Name	Acute toxicity			
	Type	Test	Kind	Value
Superphosphates CAS No: 8011-76-5 EC No: 232-379-5	Oral			
	Dermal	LD50	Rat	> 5000 mg/kg pc [1]
	Inhalation	LC50	Rat	> 5000 mg/m ³ [1]
Calcium Sodium Borate CAS No: 1319-33-1	Oral	DL50	Rat	> 3200 mg/kg
	Dermal	LD50	Rat	> 2000 mg/kg
	Inhalation			

a) acute toxicity;

Not conclusive data for classification.

Acute Toxicity Estimate (ATE):

Mixtures:

ATE (Dermal) = 18.572 mg/kg

ATE (Oral) = 30.731 mg/kg

b) skin corrosion/irritation;

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

c) serious eye damage/irritation;

Product classified:

Serious eye damage, Category 1: Causes serious eye damage.

d) respiratory or skin sensitisation;

Not conclusive data for classification.

e) germ cell mutagenicity;

Not conclusive data for classification.

f) carcinogenicity;

Not conclusive data for classification.

g) reproductive toxicity;

Product classified:

Reproductive toxicant, Category 1A: May damage fertility or the unborn child.

h) STOT-single exposure;

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Not conclusive data for classification.

i) STOT-repeated exposure;
Not conclusive data for classification.

j) aspiration hazard;
Not conclusive data for classification.

11.2 Information on other hazards.

Endocrine disrupting properties

This product does not contain components with endocrine-disrupting properties with effects on human health.

Other information

There is no information available on other adverse health effects.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

Name	Ecotoxicity			
	Type	Test	Kind	Value
Superphosphates CAS No: 8011-76-5 EC No: 232-379-5	Fish	LC50 [1] OECD 203, dihidrógenoortofosfato de amonino	Peces	> 100 mg/l (96 h) [1]
	Aquatic invertebrates	EC50/LC50	Daphnia	1790 mg/l (72 h)
	Aquatic plants	EC50/LC50 [1] OECD 201, con TSP	Algae	> 100 mg/l (72 h) [1]
Calcium Sodium Borate CAS No: 1319-33-1	Fish	CL50 NOEC crónico	Peces Peces	74-725 mg B/l 2.89-16.65 mg B/l
	Aquatic invertebrates	CE50 NOEC crónico	Crustaceans Crustaceans	45-1376 mg B/l 5.67-40.62 mg B/l
	Aquatic plants	CE50 NOEC crónico [1] OECD 201	Algae Algae	40 mg/l mg B/l (72 h) [1] 4-50 mg B/l

12.2 Persistence and degradability.

No information is available regarding the biodegradability of the substances present.

No information is available on the degradability of the substances present.

No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential.

No information is available regarding the bioaccumulation of the substances present.

12.4 Mobility in soil.

No information is available about the mobility in soil.

The product must not be allowed to go into sewers or waterways.

Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

12.6 Endocrine disrupting properties.

This product doesn't contain components with environmental endocrine disrupting properties.

12.7 Other adverse effects.

No information is available about other adverse effects for the environment.

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SECTION 13: DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

SECTION 14: TRANSPORT INFORMATION.

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

14.1 UN number or ID number.

Transportation is not dangerous.

14.2 UN proper shipping name.

Description:

ADR/RID: Not classified as hazardous for transport.

IMDG: Not classified as hazardous for transport.

ICAO/IATA: Not classified as hazardous for transport.

14.3 Transport hazard class(es).

Transportation is not dangerous.

14.4 Packing group.

Transportation is not dangerous.

14.5 Environmental hazards.

Transportation is not dangerous.

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): Not applicable.

14.6 Special precautions for user.

Transportation is not dangerous.

14.7 Maritime transport in bulk according to IMO instruments.

Transportation is not dangerous.

SECTION 15: REGULATORY INFORMATION.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

The product is not affected by Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September. The product is not affected by Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

The product is not affected by Directive 2012/18/EU (SEVESO III).

The product is not subject to restrictions on the placing on the market and use of certain hazardous substances and mixtures (Annex XVII of the REACH Regulation, etc.).

The product is not affected by Regulation (EU) No 528/2012 concerning the placing of biocidal products on the market and use.

The product is not affected by the procedure laid down in Regulation (EU) No 649/2012 on the export and import of hazardous chemicals.

Other legislation:

Regulation (EC) No. 1907/2006.

Regulation (EC) N°1272/2008 of the European Parliament and of the Council, of 16 December 2008, on classification, labelling and packaging of substances and mixtures, and by which modify and repeal the Directives 67/548/CEE and 1999/45/CE and modifies the Regulation (CE) N° 1907/2006.

Royal Decree 506/2013, of 28 June, on fertilizer products.

Regulation (EU) 2019/1009 of the European Parliament and of the Council of 5 June 2019 laying down provisions on the placing on the market of EU fertilising products and amending Regulations (EC) No 1069/2009 and (EC) No 1107/2009 and repealing Regulation (EC) 2003/2003.

15.2 Chemical safety assessment.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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SECTION 16: OTHER INFORMATION.

Complete text of the H phrases that appear in section 3:

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H360F	May damage fertility.

Classification codes:

Acute Tox. 4 : Acute toxicity (Dermal), Category 4
Acute Tox. 4 : Acute toxicity (Inhalation), Category 4
Acute Tox. 4 : Acute toxicity (Oral), Category 4
Eye Dam. 1 : Serious eye damage, Category 1
Eye Irrit. 2 : Eye irritation, Category 2
Repr. 1A : Reproductive toxicant, Category 1A

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards	On basis of test data
Health hazards	Calculation method
Environmental hazards	Calculation method

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Abbreviations and acronyms used:

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CEN:	European Committee for Standardization.
DREL:	Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.
DNEL:	Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
EC50:	Half maximal effective concentration.
PPE:	Personal protection equipment.
IATA:	International Air Transport Association.
ICAO:	International Civil Aviation Organization.
IMDG:	International Maritime Code for Dangerous Goods.
LC50:	Lethal concentration, 50%.
LD50:	Lethal dose, 50%.
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2020/878.

Regulation (EC) No 1907/2006.

Regulation (EC) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemical substances and mixtures (REACH).

This document is a general guide to the properties and potential applications of the product. The information contained in this Safety Data Sheet is given in good faith and with a belief in its accuracy, based on the knowledge available about the product and the laws in force at the time of its publication. It does not imply the acceptance of any commitment or legal responsibility on the part of Fertisac, for the consequences of its use or its misuse in any particular circumstances.

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