

# SAFETY DATA SHEET

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

## NPK 8-24-24

Version 1 Date of compilation: 7/07/2023



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

#### 1.1 Product identifier.

Product Name:	NPK 8-24-24
UFI:	DA70-W0YM-W00Y-1CA8
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:	<b>FERTISAC, S.L.</b>
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.

#### 2.2 Label elements.

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

Pictograms:



Signal Word:

**Danger**

Hazard statements:

H318 Causes serious eye damage.

Precautionary statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P310 Immediately call a POISON CENTER/doctor/...

Contains:  
Superphosphates, concd.  
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: 65996-95-4 EC No: 266-030-3	Superphosphates, concd.	< 10 %	Eye Dam. 1, H318	-
CAS No: 8011-76-5 EC No: 232-379-5	Superphosphates	< 10 %	Eye Dam. 1, H318	-

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

## SECTION 4: FIRST AID MEASURES.

### 4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

#### Inhalation.

Remove the affected person from the source of dust emission.  
Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

#### Eye contact.

Remove contact lenses, if you wear and it is easy to do. 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.

Contact with eyes may cause irreversible damage.

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

Request immediate medical attention. Never administer anything orally to persons who are unconscious. Do not induce vomiting. If the person vomits, clear the respiratory tract. Cover the affected area with a dry sterile bandage. Protect the affected area from pressure or friction.

## 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 CO<sub>2</sub>. 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<sub>x</sub>, CO<sub>2</sub>, CO, P<sub>2</sub>O<sub>5</sub> and SO<sub>x</sub>.

### 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 dusty conditions and prevent their dispersion by the wind. For exposure control and individual protection measures, see section 8.

### 6.2 Environmental precautions.

Product not classified as hazardous 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 the washing water enters the drains or waterways inform the local authority.

### 6.3 Methods and material for containment and cleaning up.

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

### 6.4 Reference to other sections.

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

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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).

Abono NPK para todo tipo de cultivo y de aplicación directa al suelo. También puede utilizarse como producto intermedio para la elaboración de otros fertilizantes.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

### 8.1 Control parameters.

Work exposure limit for:

The product does NOT contain substances with Biological Limit Values.  
Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
Superphosphates, concd. CAS No: 65996-95-4 EC No: 266-030-3	DNEL (Workers)	Inhalation, Chronic, Systemic effects	3,1 (mg/m <sup>3</sup> )
Superphosphates CAS No: 8011-76-5 EC No: 232-379-5	DNEL (Workers)	Inhalation, Chronic, Systemic effects	3,1 (mg/m <sup>3</sup> )

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.

### 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.

<b>Concentration:</b>	<b>100 %</b>		
<b>Uses:</b>	<b>Fertilizer As intermediate product for further formulation. Uses at Industrial sites Uses by professional workers.</b>		
<b>Breathing protection:</b>			
If the recommended technical measures are observed, no individual protection equipment is necessary.			
<b>Hand protection:</b>			
PPE:	Work gloves.		
Characteristics:	«CE» marking, category I.		
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
<b>Eye protection:</b>			
PPE:	Protective goggles against particle impacts.		
Characteristics:	«CE» marking, category II. Eye protector against dust and smoke.		
CEN standards:	EN 165, EN 166, EN 167, EN 168		
Maintenance:	Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions.		
Observations:	Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping etc.		
<b>Skin protection:</b>			
PPE:	Protective clothing.		



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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:	Inodoro
Odour threshold:	Not applicable
Melting point:	Not applicable
Freezing point:	Not applicable
Boiling point or initial boiling point and boiling range:	Not applicable
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:	6-7 (10%) (pH-Meter/Potentiometric/electrometric method)
Kinematic viscosity:	Not applicable
Solubility:	Not available
Hydrosolubility:	Not applicable
Liposolubility:	Not applicable
Partition coefficient n-octanol/water (log value):	Not applicable
Vapour pressure:	Not applicable
Absolute density:	900-1000 kg/m <sup>3</sup> (calculation/estimation)
Relative density:	0,05 (Estimation based on the indication of the Regulation (CE) N°1272/2008.)
Relative vapour density:	Not available
Particle characteristics:	2-5mm

#### 9.2 Other information

##### Information with regard to physical hazard classes

Explosives:	
Explosive properties:	No explosivo
Oxidizing solids:	
Oxidizing properties:	No comburente

##### 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

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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.

Stable under the recommended handling and storage conditions (see section 7).

#### 10.3 Possibility of hazardous reactions.

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

#### 10.4 Conditions to avoid.

Avoid any improper handling (contact with incompatible materials, heat sources and high temperatures).

#### 10.5 Incompatible materials.

Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

#### 10.6 Hazardous decomposition products.

No decomposition if used for the intended uses.

### 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 CAS No: 7664-93-9 EC No: 231-639-5	Oral			
	Dermal	LD50	Rat	> 5000 mg/kg pc [1]
		[1] OECD 402 con DAP		
Inhalation	LC50	Rat	> 5000 mg/m3 [1]	
	[1] OECD 403, con hidrógeno ortofosfato de diamonio			

a) acute toxicity;

Not conclusive data for classification.

Acute Toxicity Estimate (ATE):

Mixtures:

ATE (Dermal) = 87.719 mg/kg

ATE (Oral) = 528.426 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.

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e) germ cell mutagenicity;  
Not conclusive data for classification.

f) carcinogenicity;  
Not conclusive data for classification.

g) reproductive toxicity;  
Not conclusive data for classification.

h) STOT-single exposure;  
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, concd.  CAS No: 65996-95-4 EC No: 266-030-3	Fish	LC50	Peces	> 85.9 mg/l [1]
	Aquatic invertebrates	[1] OECD 203, dihidrógenoortofosfato de amonino		
		LC50	Daphnia magna	1790 mg/l [1]
Aquatic plants	[1] (ninguna directriz seguida, con SSP)			
	EC50	Algae	> 87.6 mg/l (72 h) [1]	
Superphosphates  CAS No: 8011-76-5 EC No: 232-379-5	[1] OECD 201			
	Fish	LC50	Peces	> 100 mg/l (96 h) [1]
	[1] OECD 203, dihidrógenoortofosfato de amonino			
Aquatic invertebrates	EC50/LC50	Daphnia	1790 mg/l (72 h)	
	EC50/LC50	Algae	> 100 mg/l (72 h) [1]	
[1] OECD 201, con TSP				

### 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.

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### 12.6 Endocrine disrupting properties.

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

### 12.7 Other adverse effects.

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

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

## 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.

Not classified as hazardous for transport.

## 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 2009 on substances that deplete the ozone layer.

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

The product is not restricted to the marketing and use of certain hazardous substances and mixtures (Annex XVII of the REACH Regulation, etc.).

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

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

#### Other legislation:

Regulation (EC) No 1907/2006.

Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No. 1907/2006.

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

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Regulation (EC) 2003/2003 on fertilisers.

Regulation (EU) 2019/1009 of the European Parliament and of the Council of 5 June 2019 laying down rules on the making available 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.

The supplier has not carried out a Chemical Safety Assessment for the substance/mixture.

## SECTION 16: OTHER INFORMATION.

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

H318 Causes serious eye damage.

Classification codes:

Eye Dam. 1 : Serious eye damage, Category 1

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.

PPE: Personal protection equipment.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Code for Dangerous Goods.

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.

LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%.

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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