

# GoudenKorrel®

## SAFETY DATA SHEET NITROSULFAT

Prepared in accordance with COMMISSION REGULATION (EU) 2020/878 of June 18, 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

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

Date of preparation	04.11.2024
Update date	-

#### 1.1. Product identifier

Trade name	NITROSULFAT
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#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Application	Agriculture, as a complex fertilizer. Exclusively for the professional user.
Uses advised against	Uses advised against have not been identified

#### 1.3. Details of the supplier of the safety data sheet

Company	GoudenKorrel S.A.
Address	Kaliska, 5 Fabryczna Street 87-840 Lubien Kujawski
Phone number	+48 607 777 111
E-mail	kontakt@goudenkorrel.com
Website	<a href="http://www.goudenkorrel.com">www.goudenkorrel.com</a>

#### 1.4. Emergency phone number

Emergency phone number	112 Emergency notification center (CPR)
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### SECTION 2: HAZARD IDENTIFICATION

#### 2.1. Classification of the substance or mixture

CLP classification	Classification according to Regulation (EC) 1272/2008 - unclassified
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#### 2.2. Elements of signage

Other information on the label (CLP)	Classification according to Regulation (EC) 1272/2008 - unclassified
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#### 2.3. Other risks

PBT / vPvB	Substance does not meet current criteria for vPvB (very persistent and very bioaccumulative)
Other risks	Does not meet

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS****3.1. Substances**

Not applicable

Classification according to Regulation (EC) 1272/2008

**3.2. Mixtures**

Identification		Name of the substance _ Classification according to Reg. 1272/2008	
CLP	Unclassified	<b>Polyhalite</b>	
WE	604-869-2	Mol. Form.	
CAS	15278-29-2	$K_2MgCa_2(SO_4)_4 \cdot 2H_2O$	-
CLP	Unclassified	<b>Urea</b>	
WE	300-315-5	Mol. Form.	
CAS	57-13-6	$(NH_2)_2CO$	-
CLP	Unclassified	<b>Ammonium sulfate</b>	
WE	231-984-1	Mol. Form.	
CAS	7783-20-2	$H_8N_2O_4S$	-

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

General advice	No special measures are required.
Inhalation	Elevate the affected person from the place of exposure, place in a comfortable semi-reclining or sitting position. Take care of fresh air; seek medical advice in case of ailments.
Skin contact	Immediately remove contaminated clothing and rinse skin profusely with lukewarm running water, if irritation persists seek medical advice.
Eye contact	Immediately flush eyes with plenty of cool water, preferably running water, for at least 10 minutes. Remove contact lenses, avoid strong jets of water due to the risk of mechanical damage to the cornea. If symptoms persist, seek medical advice.
Swallowing	Do not cause vomiting. Rinse out mouth with water. Drink plenty of water. If symptoms persist, seek medical advice.

**4.2. Most important acute and delayed symptoms and effects of exposure**

Acute symptoms and effects	Irritation, redness, tearing, burning and itching of the eye. Itching and local redness of the skin. Slight irritation of the respiratory system, nasal and oral mucosa, and cough. After ingestion, damage to the gastrointestinal mucosa, vomiting and diarrhea may occur.
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**4.3. Indications for any immediate medical attention and special treatment dealings with the victim**

Other information

Follow the recommendations in section 4.1.

**SECTION 5: FIREFIGHTING MEASURES****5.1. Extinguishing agents**

Suitable extinguishing agents	Use extinguishing agents suitable for the surrounding materials
Unsuitable extinguishing agents	Not specified

## 5.2. Special hazards associated with the substance or mixture

Fire and explosion hazards	The mixture is not classified as flammable. Oxides of sulfur and nitrogen may form during combustion.
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## 5.3. Information for the fire department

Personal protective equipment	Special fire protection is not required. In case of fire, hazard information available in section 10 in 10.6
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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and procedures in situations of emergency

Personal protective equipment	Wear individual protective equipment. Avoid dust formation. Use respiratory protective equipment against smoke, dust and aerosol. Wear protective clothing.
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### 6.2 Environmental precautions

Environmental precautions	Avoid the release of large quantities of the mixture into the environment or watercourses. Exercise caution to avoid contamination of waterways or sewers and notify appropriate services in case of accidental contamination.
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### 6.3 Methods and materials for containment and disposal contaminations

Cleaning	Carefully sweep and pick up. If necessary, use a vacuum cleaner with a water spray system or cleaning systems (with high-efficiency particulate filters). Prevent dust in the air. Wear personal protective equipment in accordance with national regulations.
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### 6.4 References to other sections

Other instructions	Sections 8 for the use of personal protective equipment and 13 waste handling.
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## SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

### 7.1 Precautions for safe handling

Proceedings	Provide gravity ventilation. Use protective equipment. Use work methods that minimize dust generation. Avoid inhalation of dust. The product is not a fire hazard under normal production and storage conditions.
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### 7.2 Conditions for safe storage, including information on any mutual incompatibilities

Storage	Fertilizer should be stored in a dry and sunless place, in the temperature range of 0°C to +30°C, taking care not to allow the product to freeze and protecting it from negative temperatures. Keep out of the reach of children, pets and livestock, away from water and food sources.
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### 7.3 Specific end use(s)

Other	No specific uses identified
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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

### 8.1 Control parameters

THE HIGHEST POSSIBLE CONCENTRATION IN POLAND OJ. 2018 item 1286:			
Name and CAS number of the chemical		DNS	Legal basis
Polyhalite	15278-29-2		Ordinance of the Minister of Family, Labor and Social Policy dated June 12, 2018.
Urea	57-13-6	-	
Ammonium Sulfate	7783-20-2	-	
Dusts not classified for toxicity		10 mg/m <sup>3</sup>	Appendix 1

DNEL VALUE				
Employees		Polyhalite	Urea	Ammonium sulfate
Long-term systemic effects	Skinny	-	500 mg/kg	11,17 mg/kg
Acute systemic effects		-	500 mg/kg	-
Long-term systemic effects	Inhalationally	-	292 mg/m <sup>3</sup>	42,67 mg/m <sup>3</sup>
Acute systemic effects		-	292 mg/m <sup>3</sup>	-

DNEL VALUE				
Consumers		Polyhalite	Urea	Ammonium sulfate
Long-term systemic effects	Skinned	-	300 mg/kg	12 mg/kg
Acute systemic effects		-	300 mg/kg	-
Long-term systemic effects	Inhalationally	-	125 mg/m <sup>3</sup>	12,8 mg/m <sup>3</sup>
Acute systemic effects		-	125 mg/m <sup>3</sup>	-
Long-term systemic effects	Foodwise	-	42 mg/kg	6,4 mg/kg
Acute systemic effects		-	42 mg/kg	-

	Polyhalite	Urea	Ammonium sulfate
Fresh water	-	100 mg/l	312 g/l
Seawater	-	1,407 mg/l	530 g/l
Wastewater treatment plant	-	1 g/l	31,2 g/l

## 8.2 Exposure controls

Relevant technical control measures	To prevent accidental exposure, dust accumulation should be prevented. The use of appropriate personal protective equipment is recommended. Protective goggles should be worn unless the risk of eye contact can be completely excluded due to the specifics of the application (e.g., closed process). In addition, protective clothing and shoes should be used.
Individual protection measures such as personal protective equipment	
Eye or face protection	Safety goggles must be used. In case of dust, insert tight-fitting goggles with side shields, or encased goggles with a wide angle of view.
Skin protection	Use approved CE-marked nitrile-impregnated gloves. Use clothing that completely covers the skin, full-length pants, long-sleeved blouses. Protective footwear to prevent dust penetration.
Respiratory protection	Use appropriate respiratory protection against particles depending on the level of risk.
Thermal hazards	The substance is not a fire (thermal) hazard, so no special solutions are required in this regard.
Environmental exposure control	Based on all available data, the product is not considered hazardous to the environment. Do not allow undiluted product or large quantities of it to enter groundwater, surface water or sewage system.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

PARAMETER	VALUE
State of concentration	Solid
Color	White, yellow, beige
Fragrance	Unspecified
Melting / solidification point	No data available
Boiling point or initial boiling point	No data available
Flammability of materials	Non-flammable product
Lower and upper explosive limits	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	6
Kinematic viscosity	Not applicable
Solubility	Substance completely soluble in water
Partition coefficient n-octanol / water	Not applicable
Vapor pressure	Not applicable
Density or relative density	1180 g/m <sup>3</sup>
Relative vapor density	Not applicable
Particle characteristics	98% of the product is in the form of granules with a size :2-5mm

### 9.2 Other information

Other properties	No further information
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**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

Reactivity	Non-reactive during storage, use and application under normal temperature conditions and recommended use.
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**10.2 Chemical stability**

Chemical stability	Stable during storage, use and application under normal temperature conditions and recommended use.
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**10.3 Possibility of hazardous reactions**

Dangerous reactions	There are no known dangerous reactions
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**10.4 Conditions to avoid**

Conditions to avoid	Unnecessary exposure to weather, moisture and high temperatures. Proximity to sources of heat or fire.
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**10.5 Incompatible materials**

Incompatible materials	No additional information
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**10.6 Hazardous decomposition products**

Hazardous decomposition products	Possible formation of toxic gases during combustion; Oxides of sulfur and nitrogen may form during combustion.
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**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008**

HAZARD CLASSES	ASSESSMENT
Classification according to GHS (1272/2008/EC, CLP)	This substance does not meet the criteria for classification according to Regulation No. 1272/2008/EC
Acute toxicity	Based on available data, the product is not subject to classification.
Corrosive/irritating effect on skin	Based on available data, the product is not subject to classification.
Serious eye damage/eye irritation	Based on available data, the product is not subject to classification.
Sensitizing effect on the skin or respir.	Based on available data, the product is not subject to classification.
Mutagenic effect on germ cells	Based on available data, the product is not subject to classification.
Carcinogenic effects	Based on available data, the product is not subject to classification.
Reproductive toxicity	Based on available data, the product is not subject to classification.
Toxic effects on target organs sin.exp.	Based on available data, the product is not subject to classification.
Toxic effects on target organs rep.exp.	Based on available data, the product is not subject to classification.
Aspiration hazard	Based on available data, the product is not subject to classification.

\*More information available in sections 3.2 and 8.1.

(Rat)	Polyhalite	Urea	Ammonium sulfate
Oral LD50	-	14 300-15 000 mg/kg	2000-4250 mg/kg
Dermal LD50	-	-	2000 mg/kg
Inhalation LD50	-	-	3,5 mg/m <sup>3</sup>

**11.2 Information on other hazards**

Other information	No information on endocrine disrupting properties according to the criteria specified in the relevant regulations ((EC) No. 1907/2006, (EU) 2017/2100, (EU) 2018/605)).
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**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

Toxicity	Not classified as posing a threat to the aquatic environment
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**12.2 Persistence and degradability**

Schedule	Methods to determine biodegradation are not suitable for inorganic materials.
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**12.3 Bioaccumulative potential**

Bioaccumulation	Low potential
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**12.4 Mobility in soil**

Mobility	Soluble in water
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**12.5 Results of PBT and vPvB assessment**

PBT / vPvB	Substance does not meet current criteria for vPvB (very persistent and very bioaccumulative)
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**12.6 Endocrine disrupting properties**

Effects on the endocrine system	No information on endocrine disrupting properties
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**12.7 Other harmful side effects**

Other information	No further relevant information
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**SECTION 13: WASTE TREATMENT****13.1 Waste disposal methods**

Appropriate disposal methods	Waste handling should be carried out in accordance with applicable regulations and procedures. Depending on the degree of contamination, it can be used as a fertilizer for agricultural purposes or sent to a specialized company for disposal. In case of spillage, handling information available in Section 6.
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**SECTION 14: TRANSPORT INFORMATION**

Fertilizers are not classified, are not considered hazardous materials according to the UN Orange Book and international transport codes, among others, RID - rail; ADR - road transport; IMDG - maritime.

**14.1 UN number or ID number**

UN number / ID	Not applicable
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**14.2 UN proper shipping name**

It's called UN	Not applicable
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**14.3 Transport hazard class(es)**

Hazard class	Not applicable
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**14.4 Packing group**

Packaging group	Not applicable
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**14.5 Environmental risks**

Threat to the environment	Not applicable
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**14.6 Special precautions for users**

Precautions	Not applicable
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**14.7 Sea transport in bulk in accordance with IMO instruments**

Maritime transport	Not applicable
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**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations specific to the substance or mixture**

EUROPEAN UNION REGULATIONS	
Normative document	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of December 18, 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
Normative document	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 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
Normative document	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of December 16, 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
Normative document	Directive 1999/45/EC of the European Parliament and of the Council of May 31, 1999 on the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labeling of dangerous preparations



NATIONAL REGULATIONS	
Normative document	Ordinance of the Minister of Family, Labor and Social Policy dated June 12, 2018.
Normative document	Law of February 25, 2011 on chemical substances and their mixtures
Normative document	Law of December 14, 2012 on waste
Normative document	Act of June 13, 2013 on packaging and packaging waste management.

## 15.2 Chemical safety assessment

Evaluation process	According to the REACH Regulation, there is no obligation to carry out a chemical safety assessment
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## SECTION 16: OTHER INFORMATION

Changes made	No																						
Explanation of abbreviations and acronyms	<table border="0"> <tr> <td>Mol.</td> <td>Chemical formula</td> </tr> <tr> <td>Form.</td> <td>Numerical meaning assigned to a chemical substance.</td> </tr> <tr> <td>CAS no</td> <td>International classification of enzymes</td> </tr> <tr> <td>EC/list no</td> <td>European Chemicals Agency</td> </tr> <tr> <td>ECHA</td> <td>Derivative level of no change in health</td> </tr> <tr> <td>DNEL</td> <td>Predicted no-change concentration in the environment.</td> </tr> <tr> <td>PNEC</td> <td>Persistent, bioaccumulative, harmful substance</td> </tr> <tr> <td>PBT</td> <td>B. permanent, subject to significant bioaccum. Sub.</td> </tr> <tr> <td>vPvB</td> <td>Chemical</td> </tr> <tr> <td>UN</td> <td>No. assigned to hazardous sub.</td> </tr> <tr> <td>ID</td> <td>Substance identification number</td> </tr> </table>	Mol.	Chemical formula	Form.	Numerical meaning assigned to a chemical substance.	CAS no	International classification of enzymes	EC/list no	European Chemicals Agency	ECHA	Derivative level of no change in health	DNEL	Predicted no-change concentration in the environment.	PNEC	Persistent, bioaccumulative, harmful substance	PBT	B. permanent, subject to significant bioaccum. Sub.	vPvB	Chemical	UN	No. assigned to hazardous sub.	ID	Substance identification number
Mol.	Chemical formula																						
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PBT	B. permanent, subject to significant bioaccum. Sub.																						
vPvB	Chemical																						
UN	No. assigned to hazardous sub.																						
ID	Substance identification number																						
Reference sources	The charter was created on the basis of the manufacturer's data, safety data sheets of suppliers of raw materials, data from online databases, taking into account the current legal regulations																						
Training	Familiarize persons in direct contact with the product with this Safety Data Sheet																						