GoudenKorrel®

SAFETY DATA SHEET

in accordance with Commission Regulation (EU)_ 2020/878 as amended

POLYHALITE COMPLEX ®

Date of preparation 01.04.2024
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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name	POLYHALITE COMPLEX ®
Substance / mixture	mixture

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

Use	Agriculture, as a mineral fertilizer
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, ul. Fabryczna 5 87-840 Lubień Kujawski
Telephone number:	+48 607 777 111
E-mail	kontakt@goudenkorrel.com
Website	www.goudenkorrel.com

1.4. Emergency telephone number:

Emergency telephone number:	112 Public-safety answering point (PSAP)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP classification	Classification according to Regulation (EC) No. 1272/2008 - unclassified

2.2. Label elements

Other labeling information (CLP)	Classification according to Regulation (EC) No. 1272/2008 - unclassified

2.3. Other hazards

PBT / vPvB	The mixture does not meet current criteria for vPvB (very persistent and very bioaccumulative)
Other hazards	The mixture does not contain substances that disrupt the functioning of the endocrine system in accordance with Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008, as amended.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable	Classification according to Regulation (EC) 1272/2008

3.2. Mixture

ID numbers	Name of substance	Content in % dry weight	Classification according to Regulation (EC) No 1272/2008
CAS: 16389-88-1 WE: 240-440-2	Calcium magnesium carbonate	4,5-6,5	not classified as hazardous
Index: 030-006-00-9 CAS: 7446-19-7 WE: 231-793-3	Zinc (VI) sulfate (II) (hydrated) (monohydrate, hexahydrate, heptahydrate)	0,01- 0,05	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice	No special measures 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 discomfort.
Skin contact	Wash the skin with soap and water. If skin irritation or sensitization reaction occurs, seek medical advice
Eye contact	Immediately flush eyes with plenty of cool water for at least 15 minutes. Remove contact lenses. If symptoms persist, seek medical advice.
Ingestion	Do not cause vomiting. Rinse out mouth with water. Drink plenty of water. If symptoms persist, seek medical advice.

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

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, gastrointestinal disorders may occur.

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

Other information	Continue symptomatic treatment.

SECTION 5: PROCEEDING IN CASE OF FIRE

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazard	The chemical is not classified as flammable. The chemical is non-flammable.

5.3. Advice for fire fighters

Personal protective equipment	Special fire protection is not required. In case of fire, hazard information available in section 10 in 10.6

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

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

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.

6.3. Methods and material for containment and cleaning up

Cleaning	Sweep and pick up carefully. If necessary, use vacuum cleaner with 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

6.4. Reference to other sections

Other instructions	See Section 8 for personal protective equipment use and Section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling	Follow generally accepted occupational health and safety practices. Ensure adequate ventilation. Avoid inhaling dust.

7.2. Conditions for safe storage, including information on any incompatibilities

Storage	The fertilizer should be stored in a dry place, between 0°C and +30°C, protected from freezing temperatures. Keep out of the reach of children, pets, and farm animals, and away from food and water sources.

7.3. Specific end use(s)

Other	No specific uses identified

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION EQUIPMENT

8.1. Control parameters

MAXIMUM ALLOWABLE CONCENTRATION IN POLAND		
Name and CAS number of the chemical substance	Type	Value
Calcium magnesium carbonate (dolomite) CAS 16389-88-1 WE 240-440-2	NDS	10 mg/m^3

Comments
Inhalable fraction – the aerosol fraction, defined in accordance with the PN-EN 481 standard, that penetrates through the nose and mouth. It poses a health hazard when deposited in the respiratory tract.

DNEL VALUES

ZINC (VI) SULFATE (II)			
		Employees	Consumers
Long-term systemic effects	Skinny	8,3 mg/kg	8,3 mg/kg
Acute systemic effects		-	-
Long-term systemic effects	Inhalation	1 mg/m^3	1,25 mg/m^3
Acute systemic effects		-	-
Long-term systemic effects	Foodwise	-	0,83 mg/kg
Acute systemic effects		-	-

PNEC VALUES

	ZINC (VI) SULFATE (II)
Fresh water	20,6 µg/dm^3
Sediment fresh water	117,8 mg/kg s.m. osadu

See water	6,1 µg/dm^3
Sediment see water	56,5 mg/kg s.m. osadu
Wastewater treatment plant	0,1 mg/dm^3
Soil	35,6 mg/kg s.m. gleby

8.2. Exposure controls

Precautions to prevent exposure	To prevent accidental exposure, dust accumulation should be prevented. Indicated local or general ventilation of the room It is recommended to use personal protective equipment: protective goggles, cotton gloves, protective clothing and shoes.

Individual protection measures such as personal protective equipment	
Eye or face protection	Use protective goggles. For dust, put on tight-fitting goggles with side shields, or encased goggles with a wide angle of view.
Skin protection	Use chemical-resistant protective gloves made of natural rubber with a minimum thickness of 0.5 mm Use clothing that completely covers the skin, full-length pants, long-sleeved blouses. Protective footwear to prevent dust penetration.
Respiratory protection	Local or general room ventilation is recommended. Use appropriate respiratory protection against particles depending on the risk level. In case of dust, use disposable dust masks.

Thermal hazards	The mixture does not pose 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 to pose a risk to the environment. Do not allow undiluted product or large quantities to enter groundwater, surface water, or sewage systems.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

PARAMETER	VALUE
Physical state	Solid
Color	Red, pale red, pink, white, beige
Odor	unspecified

Melting/freezing point	Not specified
Boiling point or initial boiling point and boiling range	Not specified
Flammability of materials	Non-flammable product
Lower and upper explosive limit Not applicable	Not specified
Ignition point	Not specified
Auto-ignition temperature	Not specified
Decomposition temperature	Not specified
pH	5-7
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	0,86 T/m^3
Relative vapor density	Not applicable
Particle characteristics	98% of the product is in the form of pellets with a size of 2-5 mm

9.2. Other information

Other properties	No further information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

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

10.2. Chemical stability

Chemical stability	Stable during storage, use and application under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Hazardous reactions	No dangerous reactions known.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Incompatible materials	No further information.

10.6. Hazardous decomposition products

Hazardous decomposition products	Possible formation of toxic gases during combustion; sulfur oxides, oxygen, magnesium oxide, hydrogen chloride

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	Not classified as causing acute toxicity
Skin corrosion/irritation	Not classified as causing skin corrosion/irritation
Serious eye damage/irritation	Not classified as causing serious eye damage or eye irritation
Skin or respiratory sensitization	Not classified as a respiratory or skin sensitizer
Germ cell mutagenicity	Not classified as mutagenic to germ cells
Carcinogenicity	Not classified as carcinogenic
Reproductive toxicity	Not classified as toxic for reproduction
Toxic effects on target organs - single exposure	Not classified as toxic to target organs (single exposure)
Toxic effects on target organs - repeated exposure	Not classified as toxic to target organs (repeated exposure)
Aspiration hazard	Not classified as posing an aspiration hazard

*More information available in sections 3.2 and 8.1.

Toxicological information			
		ZINC (VI) SULFATE (II)	
Ingestion	LD50	Mouse Rat Rabbit	245 mg/kg 1710 mg/kg 2000 mg/kg
Skinny	LD50		-
Inhalation	LC50		-

11.2. Information on other hazards

Other information	The mixture does not contain substances that disrupt the functioning of the endocrine system in accordance with Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008, as amended.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Toxicity	Not classified as hazardous to the aquatic environment

12.2 Persistence and degradability

Decomposition	Methods to determine biodegradation are not suitable for inorganic materials.

12.3. Bioaccumulative potential

Bioaccumulation	Low potential

12.4.Mobility in soil

Mobility	Soluble in water

12.5. Results of PBT and vPvB assessment

PBT / vPvB	The substance does not meet current criteria for vPvB (very persistent and very bioaccumulative)

12.6. Endocrine disrupting properties

Effects on the endocrine system	No information on endocrine disrupting properties.

12.7. Other harmful side effects

Other information	No further relevant information available

SECTION 13: HANDLING OF WASTES

13.1. Waste treatment methods

Suitable methods of disposal	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 are available in Section 6.

SECTION 14: TRANSPORT INFORMATION

Fertilizers are not classified, they are not considered hazardous materials according to the UN Orange Book and international transport codes, e.g. RID - railroad; ADR - road transport; IMDG - sea transport.

14.1. UN number or ID number

UN NO. / ID	Not applicable

14.2. UN Proper shipping name

UN name	Not applicable

14.3. Transport hazard class(es)

Hazard classes	Not applicable

14.4. Packing group

Packing group	Not applicable

14.5. Environmental hazards

Environmental hazards	Not applicable

14.6. Special precautions for users

Precautions	Not applicable

14.7. Sea transport in bulk according to IMO instruments

Sea transport	Not applicable

SECTION 15: REGULATORY INFORMATION

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

EUROPEAN UNION REGULATIONS	
Normative document	REGULATION (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and 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 on 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 16 December 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.
EUROPEAN UNION REGULATIONS	EUROPEAN UNION REGULATIONS

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

15.2. Chemical safety assessment

Assessment process	According to REACH regulation, no chemical safety assessment is required

SECTION 16: OTHER INFORMATION

Changes made	Changes to the content of sections 2.3; 3.2; 4.3; 9.1; 11.2; 12.6 – editorial corrections, no change in classification.	
Wyjaśnienie skrótów i akronimów	CLP	Regulation (EC) No. 1272/2008 on classification, labeling and packaging of substances and mixtures
	Acute Tox.	Acute toxicity
	Aquatic Acute	Hazardous to the aquatic environment (acute)
	Aquatic Chronic	Hazardous to the aquatic environment (chronic)
	CAS no	The numerical meaning assigned to a chemical substance.
	WE	Identification code for each substance listed in EINECS
	EINCES	European Inventory of Existing Commercial Chemical Substances

	ECHA DNEL PNEC PBT vPvB UN ID	European Chemicals Agency Derived non-health effect level Predicted no-effect concentration Persistent, bioaccumulative harmful substance Very persistent, highly bioaccumulative substance No. assigned to hazardous substances Substance identification No.
Reference sources	The data sheet 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 currently valid legal regulations	
Training	Persons having direct contact with the product should be familiarized with this Safety Data Sheet.	