

**SAFETY DATA SHEET**

In accordance with Commission Regulation (EU) 2020/878 amending Annex II to Regulation (EC) 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Date of issue:26.01.2026

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	
1.1 Product Identifier	
Chemical name:	Silicon dioxide, amorphous
EC №	231-545-4
REACH:	01-2119379499-16-0382
CAS №:	7631-86-9
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Relevant identified uses:	• In foods as an anticaking agent and thickener E551. • In the feed industry used as raw materials for the production of granules for the composition of feed for broilers, chickens hens and hans. Feed additive E551a. SU1; SU24; SU0; SU4 PC1; PC12; PC14; PC27; PC29; PC0 Feed raw material - Amosil 220
Uses advised against:	No additional information
1.3 Details of the supplier of the safety data sheet	
Supplier:	Name: "MINERALCOMMERCE "AD Address: 1, "Novozagorsko shose" Str. Tel.: +359 42 95 00 06 URL website: www.mineralcommerce.bg Email: mail@mineralcommerce.bg
Person, responsible for the safety data sheet:	Silviya Gerdzhikova "MINERALCOMMERCE "AD 6000, Stara Zagora, „Novozagorsko shose” 1 Tel.: +359884353310 URL website: www.mineralcommerce.bg Email: projects@mineralcommerce.bg
1.4 Emergency telephone number:	
Emergency Telephone Number:	Emergency phone:112 in Bulgaria Tel/fax +359 2 9154 233

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		E-mail: poison_centre@mail.orbitel.bg http: http://www.pirogov.bg Ministry of Environment and Water +359 2 9803317	
2. HAZARDS IDENTIFICATION			
2.1 Classification of the substance or mixture			
Classification according to Regulation 1272/2008 (CLP) According to the available information this preparation isn't classified as hazardous.			
Precautionary statements	H 335 Inhalation may cause irritation of the respiratory system. H 319 Eye contact may cause irritation.		
2.2 Label elements			
Labeling according to Regulation 1272/2008 (CLP)			
Danger Symbols		Not applicable	
Signal words		Not applicable	
Precautionary statements		Inhalation may cause irritation of the respiratory system. Eye contact may cause irritation.	
Safety recommendations		Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing If eye irritation persists get medical advice/attention	
2.3 Other hazards			
PBT/vPvB:		Not persistent, bioaccumulative or toxic (PBT) according to the criteria set out in Annex XIII of Regulation (EC) 1907/2006.	
3. COMPOSITION/INFORMATION ON INGREDIENTS			
Substances			
CAS №	Substance name	EC №	REACH per. №

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7631-86-9	SiO ₂ Silicon dioxide, amorphous	231-545-4	01-2119379499-16-0382
4. FIRST AID MEASURES			
4.1 Description of first aid measures			
In case of eye contact:	Possible discomfort caused by a foreign object. Rinse abundantly with water for 15 -20 minutes. Consult an ophthalmologist immediately.		
In case of skin contact:	No special measures required.		
In case of ingestion:	Rinse the mouth abundantly with water. Necessity of qualified medical aid - compulsory upon eye contact.		
In case of inhalation:	Take the victim to fresh air. In case of malaise call for medical assistance immediately.		
4.2 Most important symptoms and effects, both acute and delayed			
Acute effects	No date		
Delayed effects	No date		
4.3 Indication of any immediate medical attention and special treatment needed			
5. FIRE FIGHTING MEASURES			
5.1 Extinguishing media			
Suitable extinguishing media:	All available means for fire extinction		
Unsuitable extinguishing media:	No data available.		
5.2 Special hazards arising from the substance or mixture			
Hazardous combustion products:	No data available		
5.3 Advice for fire-fighters			
Special protective equipment:	Respiratory apparatus with full		

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	protection of the face and protective clothes.
6. ACCIDENTAL RELEASE MEASURES	
6.1 Personal precautions, protective equipment and emergency procedures	
Work clothes, rubber/latex gloves, tight protective goggles and good general or local ventilation. Take protective measures against the formation of static charges.	
6.2 Environmental precautions	
Localize and stop spilling. Do not allow contamination of superficial/subterranean waters. Do not allow contamination of the soil	
6.3 Methods and material for containment and cleaning up	
Mechanical cleaning. The gathered wastes to be stored in special containers before their disposal	
6.4 Reference to other sections	
See Sections 8 and 13	
7. HANDLING AND STORAGE	
7.1 Precautions for safe handling	
Engineering measures:	Observe instructions regarding the production and packaging of silicon dioxide
General hygiene measures:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide adequate ventilation in places where dust is formed.
7.2 Conditions for safe storage, including any incompatibilities	
Storage conditions:	In original well closed packing and dry rooms. Far from food, drinks and inflammable sources, at temperatures up to 50°C.
Incompatible substances/mixes	No data available.
7.3 Specific end use(s)	
Directions for use:	For professional use See section 1.2
8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
8.1 Control parameters	

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Occupational exposure limit values	max 4.0 mg/m3, total dust; TLV – 10.0 mg/m3, total dust (USA) OES – 6.0 mg/m3 – total dust (UK) 4.0 mg/m3 (Regulation 13, Bulgaria) Inhalable fraction	
Currently recommended exposure limit values:	Route of exposure	Derived No Effect Levels (DNEL)
		- OSHA Limit (PEL) 80 / (% SiO2) mg/m3 (TWA) - ACGIH max. level (TLV) - 10 mg/m3 (TWA)
	Oral	
	Dermal	
	Inhalation	
8.2 Exposure controls		
Appropriate engineering controls:	General industrial hygiene practice	
Individual protection measures, such as personal protective equipment:		
Respiratory protection:	In case of concentrations exceeding the limit concentration of the air in the working environment, use a protective mask.	
Hand protection:	Use protective cream for the skin.	
Eye/face protection:	Use protective goggles	
Skin protection:	Protective work clothes. When necessary use a rubber apron. Avoid penetration into the sewage.	
Hygiene measures:	Do not allow atomization of the product.	
9. PHYSICAL AND CHEMICAL PROPERTIES		
9.1 Information on basic physical and chemical properties		
Appearance:	Dust	
Odour:	No data available	
pH (5% suspension)	6,0-7,5	
Specific surface	Minimum 220m²/g	
Melting point/Freezing point:	No data available	

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Boiling point:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	Not self-inflammable
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	2,2 - 2,6 g/mL at 25 °C
Solubility(ies):	Insoluble
Partition coefficient n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Oxidizing properties:	No data available
Explosive properties:	No data available
9.2 Other properties	
<i>Other physical and chemical parameters:</i> No data available	
10. STABILITY AND REACTIVITY	
10.1 Reactivity	
Product is non-reactive under normal conditions of use, storage and transportation	
10.2 Chemical stability	
Stable under normal environmental conditions. Hygroscopic	
10.3 Possibility of hazardous reactions	
No data available	
10.4 Conditions to avoid: High temperature above 2000°C	
10.5 Incompatible materials: No data available	

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10.6 Hazardous decomposition products: No data available	
11. TOXICOLOGICAL INFORMATION	
11.1 Information on toxicological effects	
Acute toxicity	LD50 Oral - rat - 3.160 mg/kg LD50 Oral - rat - 7.500 mg/kg
Irritation:	Skin irritation, rabbit - 4 hrs. exposure - not irritating
Corrosion:	No data available
Sensitisation:	The epidemiological studies on workers exposed to the effects of amorphous silicon dioxide didn't show data for development of silicosis of the lungs at chronic professional exposition.
Carcinogenicity:	Experiments on test-systems in vivo established absence of mutagen activity. Cancerogenic action. At chronic swallowing with food of 1.25 to 5% for 103 weeks and with mice for 93 weeks, it was not established exaggerated formation of malignant formations with the test animals compared with the control groups.
Mutagenicity	Experiments on the test systems in vivo and in vitro establish the absence of mutagenic activity.
Reproductive toxicity:	Oral introduction of a dose of 497 mg/kg to male rats and 509 mg/kg- to female for 4.5 weeks didn't establish deviations from the fertility and at the development of the first generation.
12. ECOLOGICAL INFORMATION	
12.1 Toxicity	
Algae:	No data available
Daphnia:	EC 50 – 10000 mg/l, 24 h, OECD 202
Fish /short term/long term:	Brachydanio rerio, 96 h- LC 50 = 14791 mg/l
12.2 Persistence and degradability	
Biodegradability:	No data available

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Hydrolysis, oxidation:	No data available
12.3 Bioaccumulative potential	
Bioconcentration factor (BCF):	No data available
Octanol-water partition coefficient (Kow)	No data available
12.4 Mobility in soil	
Adsorption coefficient:	No data available
12.5 Results of PBT and vPvB assessment	
Not persistent, bioaccumulative or toxic (PBT) according to the criteria set out in Annex XIII of Regulation (EC) 1907/2006 – REACH.	
12.6 Other adverse effects	
Keep from disposal into the canals and other water bodies	
13. DISPOSAL CONSIDERATIONS	
13.1 Waste treatment methods	Under national law
Containers:	Code of packaging waste: 15 01 01 - paper and cardboard packaging.
Waste treatment according to the national and local regulations:	Spillages should be collected in a container and disposed in places designated by the competent authorities.
14. TRANSPORT INFORMATION	
The finished product is not considered hazardous under the Transport Regulations.	
14.1. UN number	Not applicable
14.2. UN proper shipping name	Not applicable
14.3. Transport hazard class(es)	Not classified as dangerous in transports regulations. Not a DOT controlled material (United States).
14.4. Packing group	Not applicable
14.5. Environmental hazards	Not applicable
14.6. Special precautions for user	See section 7.1

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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable
15. REGULATORY INFORMATION	
15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture	Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Regulation 1831/2003 on additives for use in animal nutrition. Regulation 183/2005 laying down requirements for feed hygiene. Regulation 767/2009 on the placing on the market and use of feed. Regulation 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Regulation 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification and packaging of substances and mixtures. Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Local legislation: Environmental Protection Act; Waste Management Act; Law on Protection from the Harmful Effects of Chemical Substances and Mixtures; Ordinance 2 on Waste Classification; Ordinance on the Requirements for the Treatment and Transportation of Industrial and Hazardous Waste; Regulation 7 on the minimum requirements for health and safety at work and when using work equipment; Feed Act

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15.2 Chemical safety assessment	Under Article 14 of Regulation 1907/2006
16. OTHER INFORMATION	
Training advice: to provide adequate information, instruction and training. The information in the material data safety sheet corresponds to the contemporary level of knowledge at the date of issue of the document. The use of the information and the conditions of use are beyond the control of the manufacturer, the user bears the responsibility for applying the safety recommendations.	
Edition	Replaces an edition of 26.01.2026
Change/editing	Regulation EO 2020/878
Information sources	ECHA; ESIS