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According to the European Commission Regulations (EU) 2020/878 Annex II



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SECTION 1: Identification	of the substance/mixture and of the con	npany/undertaking
1.1. Product identifier		
Trade name:	AgroMag® Feed	
Product Form:	Fine, homogeneous powder	
Synonyms:	Brucite, magnesium hydroxide	
CAS number	1317 – 43 – 7	
EC number	215 – 274 – 9	
Molecular Weight:	58.3 g/mol	
Chemical Formula:	Mg(OH) ₂	
Registration number	not applicable (see section 15)	
1.2. Relevant identified us	es of the substance or mixture and uses	advised against
Recommended Use	Source of magnesium for animal feeds an	nd premixtures
Uses advised against	No Information available	
1.3. Details of the supplier	of the safety data sheet	
Company	Russian Mining Chemical Company LLC, 115093, Russia, Moscow, Pom. 1C, Pavlo Intracity Territory of Federal City Danilovs	
E-mail address	info@brucite.plus	
Website	https://brucite.plus/en/	
1.4. Emergency telephone	number	
T (AOE) 700 CE 20		

+7 (495) 789-65-30

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP] - Not Classified

2.2. Label elements

Label elements - *Not required* Precautionary Statement - *Prevention (inhalation)* P260

2.3. Other hazards

Formation of dust is possible.

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Results of PBT and vPvB assessment.

According to the results of its assessment, this substance is not a PBT or a vPvB.

This product does not contain any known or suspected endocrine disruptor.

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance Name	CAS No	EC/List No	Content	R-phrases	Product identifier according to 1272/2008/EC	1907/2006/EC (registration REACH)
Brucite (magnesium hydroxide)	1317 - 43 - 7	215-274-9	100 %	none	none	Exempted in annex V

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SECTION 4: First aid measures				
4.1. Description of first aid measu	res			
General Advice	Seek medical assistance if feeling unwell.			
Eye Contact	Rinse out with plenty of water. Do not r	ub eyes.		
Skin Contact	Wash with plenty of water. Wash conta	minated clothing.		
Ingestion	Rinse out mouth with plenty of water swallowing large amounts: induce vom	iting.		
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing.			
Self-Protection of the First Aider	No special precautions required.			
4.2. Most important symptoms and effects, both acute and delayed				
Eye Contact	Can cause irritation, redness, tearing, b	burning		
Skin Contact	Can cause irritation, drying, chapping			
Ingestion	In large quantities causes irritation, n upset	ausea and gastrointestinal		
Inhalation	not applicable			
4.3. Indication of any immediate medical attention and special treatment needed				
Notes to Physician	Treat symptomatically			

SECTION 5: Firefighting measures

5.1. Extinguishing media

No limitations. Coordinate firefighting measures to the fire surroundings

5.2. Special hazards arising from the substance or mixture

The substance is not combustible, not explosive and not flammable. Magnesium hydroxide has a flame retardant effect.

5.3. Advice for firefighters

Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Avoid generation of skin contact and eye contact. Contaminated surfaces will be extremely slippery.

6.2. Environmental precautions

Try to prevent the material from entering drains or water courses.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, universal binder, sawdust). Dispose of in accordance with local regulations.

6.4. Reference to other sections

Not appropriate

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion:

Normal measures for preventive fire protection. Take precautionary measures against static discharge. Advice on safe handling:

Wear personal protective equipment. Keep away from heat and sources of ignition.

Conditions for safe storage:

Keep away from direct UV light and moisture. Keep container closed when not in use.

Materials to avoid:

Chloride and phosphate water soluble metal salts, strong acids, strong bases, strong oxidizers, halogenated compounds, reactive metal powders.

7.3. Specific end use(s)

Source of magnesium for animal feeds and premixtures.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits: No data available.

Biological limit values: No data available.

Magnesium hydroxide - Exposure Limits

OSHA (PEL-TWA)	ACGIH (TLV-TWA)	Alberta (TWA)
15 mg/m ³	10 mg/m ³	10 mg/m ³
(Total Dust)	(Total Dust)	(Nuisance Particulate)
5 mg/ m ³	5 mg/ m³	5 mg/ m ³
(Respirable Dust)	(Respirable Dust)	(Respirable Dust)

Other countries: Please inform at your national authorities.

8.2. Exposure controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimize release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

Personal protective equipment:

Eye ProtectionGoggles complying with an approved standardHand ProtectionProtective gloves complying with an approved standard.Hand ProtectionEnsure gloves are suitable for the task: Chemical compatibility, Dexterity,
Operational conditions, User susceptibility, e.g. sensitization effects, also

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Skin and body protection	take into consideration the specific local is used, such as the danger of cuts, abrasion. Remove gloves with c Impervious clothing and shoes to pre contact	are avoiding skin contamination.
Respiratory protection	Dust mask (minimum filter type P2) com	plying with an approved standard
Environmental exposure (controls: No information available	

Environmental exposure controls: No information available

According to the European Commission Regulations (EU) 2020/878 Annex II

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SECTION 9: Physical and chemical properti	es
9.1. Information on basic physical and chen	nical properties
Physical state	fine, homogeneous powder
Colour	from white to grey
Odour:	odorless
Melting point/freezing point	not applicable, decomposition at 350°C
Boiling point or initial boiling point and boiling range	not applicable, decomposition at 350°C
Flammability	not flammable
Lower and upper explosion limit	not applicable
Flash point	not applicable
Auto-ignition temperature	not applicable
Decomposition temperature	>350°C (662°F)
рН	~ 10.5 (10 % suspension in water)
Kinematic viscosity	not applicable (solid)
Solubility: - in water (20°C) - in alcohols Partition coefficient:	- almost insoluble - insoluble
- n-octanol/water (log value)	not applicable
Vapour pressure	not applicable
Relative density	700-800 (Loose Bulk Density, kg/m³, min)
Relative vapour density	not applicable
Evaporation rate	not applicable
Explosive limits	not applicable
Viscosity	not applicable (solid)
Explosive properties	not explosive
Oxidizing properties	not applicable

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9.2. Other information		
Molecular Weight	58.3 g/mol	
Chemical Formula	Mg(OH) ₂	

Evaporation Rate

not applicable - solid

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability

Hygroscopic. Air sensitive. Chemically stable up to the decomposition temperature. Above 350°C decomposition to magnesium oxide and water.

10.3. Possibility of hazardous reactions

Reacts vigorously with strong acids.

10.4. Conditions to avoid

Avoid dust formation. Exposure to air. Exposure to moist air or water

10.5. Incompatible materials

Chloride and phosphate water soluble metal salts, strong acids, strong bases, strong oxidizers, halogenated compounds, reactive metal powders.

10.6. Hazardous decomposition products

Decomposes to magnesium oxide and water.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product Information	No acute toxicity information is available for this product
	Oral: Based on available data, the classification criteria are not met
(a) aquita taxiaity	Dermal: No data available

(a) acute toxicity Dermal: No data available

Inhalation: No data available

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Brucite (magnesium hydroxide) CAS No 1317 - 43 - 7	LD50 = 8500 mg/kg (Rat) LD50 > 5000 mg/kg (Mice)	LD50 > 2500 mg/kg (Rabbit)	LC50 > 2100 mg/kg (Rat)

(b) skin corrosion/irritation	Not absorbed by intact skin. Intimate contact of the skin with magnesium hydroxide can cause temporary irritation, drying and chapping.	
(c) serious eye damage/irritation	Can cause temporary eye irritation.	
(d) respiratory or skin sensitisation (e) germ cell mutagenicity	Short-term inhalation of magnesium hydroxide dust or fume can cause temporary irritation of upper respiratory tract, nose and skin. No data available	

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(f) carcinogenicity	Substance is not classified as carc IARC, NTP or OSHA	inogenic under ACGIH, NIOSH,
(g) reproductive toxicity	No data available	
(h) STOT-single exposure	No data available	
(i) STOT-repeated exposure	No data available	
(j) aspiration hazard	No data available	
11.2. Information on other hazards		
	Access and coring disrupting prov	nortion for human haalth. This

Endocrine Disrupting Properties Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disrup

SECTION 12: Ecological information

12.1. Toxicity

Component	Freshwater Fish	Water Flea	Freshwater Algae
Brucite (magnesium hydroxide) CAS No 1317 - 43 - 7	LC50 (96h) = 775,8 mg/l, Oncorhynchuc mykiss LC50 (96h) = 306,8 mg/l, Pimephales promelas	EC50 (96h) = 170 mg/l, Daphnia magna	EC50 (72h) > 100 mg/l, Pseudokirchnerella subcapitata

12.2. Persistence and degradability

Magnesium hydroxide is nearly insoluble in water. By reaction with acids and neutralization magnesium hydroxide is slowly degraded.

12.3. Bioaccumulative potential

Due to its ionic nature it is not a candidate for bioaccumulation

12.4. Mobility in soil

Spillage unlikely to penetrate soil Is not likely mobile in the environment due its low water solubility

12.5. Results of PBT and vPvB assessment

In accordance with Annex XIII of the REACH Regulation, inorganic substances do not require assessment.

12.6. Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptors

12.7. Other adverse effects

Persistent Organic Pollutant	This product does not contain any known or suspected substance
Ozone Depletion	This product does not contain any known or suspected substance

SECTION 13: Disposal considerations					
13.1. Waste treatment methods					
Waste from Residues/Unused Products	Dispose of in accordance with the European Directives on waste. Dispose of in accordance with local regulations. Do not discharge into drains or the environment. Do not dispose of domestic waste.				
Contaminated Packaging	Dispose of this container to waste collection point.				
European Waste Catalogue (EWC)	According to the European Waste Catalog, Waste Codes are not product specific, but application specific				

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Other Information

Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains.

SECTION 14: Transport information

14.1. UN number or ID number

IMDG/IMO, ADR, IATA – Not regulated

14.2. UN proper shipping name

IMDG/IMO, ADR, IATA - Not regulated

<u>14.3. Transport hazard class(es)</u>

IMDG/IMO, ADR, IATA - Not regulated

14.4. Packing group

IMDG/IMO, ADR, IATA - Not regulated

14.5. Environmental hazards

No hazards identified

14.6. Special precautions for user

No special precautions required

14.7. Maritime transport in bulk according to IMO instruments

Not applicable, packaged goods

SECTION 15: Regulatory information

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

International Inventories

Europe

Brucite (magnesium hydroxide) CAS No 1317- 43-7; EINECS 215-274-9

Authorisation/Restrictions according to EU REACH (1907/2006) - Annex XIV – Substances Subject to Authorization, Annex XVII – Restrictions on Certain Dangerous Substances, article 59 - Candidate List of Substances of Very High Concern (SVHC)

Not applicable

Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification, Qualifying Quantities for Safety Report Requirements

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Not applicable

Contains component(s) that meet a definition of per & poly fluoroalkyl substance (PFAS)

Not applicable

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New Zealand (NZIoC), Canada (DSL/NDSL), China (IECSC), Philippines (PICCS), Taiwan (TCSI), Korea (KECL), Japan (ENCS/ ISHL), Australia (AICS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component	NZIoC	DSL	NDSL	IECSC	PICCS	TCSI	KECL	ENCS	ISHL	AICS	TSCA
Brucite (magnesium hydroxide) CAS No 1317 - 43 - 7	1	1	1	1	1	1	1	× ¹	1	1	1

Legend: X – Listed /- Not Listed

 x^1 – Brucite (magnesium hydroxide), Japan: ENCS No C022-972-30A

Turkey

Brucite (magnesium hydroxide) CAS No 1317- 43-7; EINECS 215-274-9

The substance is exempted from the obligation to register according to Registration, Evaluation, Authorisation and Restriction of Chemicals (KKDIK) forced on 23.12.2017 by Ministry of Environment and Urban Planning, Turkey as natural magnesium hydroxide is a mineral occurring in nature. See annex V.

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at Work.

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

SECTION 16: Other information

Legend							
CAS - Chemical Abstracts Service	TSCA - United States Toxic Substances Control Act						
EINECS/ELINCS - European Inventory of	Section 8(b) Inventory						
Existing Commercial Chemical Substances/EU	DSL/NDSL - Canadian Domestic Substances List/Non-						
List of Notified Chemical Substances	Domestic Substances List						
PICCS - Philippines Inventory of Chemicals and	ENCS/ISHL - Japanese Existing and New Chemical						
Chemical Substances	Substances						
IECSC - Chinese Inventory of Existing	AICS - Australian Inventory of Chemical Substances						
Chemical Substances	NZIOC - New Zealand Inventory of Chemicals						
KECL - Korean Existing and Evaluated	TCSI - Taiwan's chemical substance inventory						
Chemical Substances							
WEL - Workplace Exposure Limit	TWA - Time Weighted Average						
ACGIH - American Conference of	IARC - International Agency for Research on Cancer						
Governmental Industrial Hygienists	PNEC - Predicted No Effect Concentration						
DNEL - Derived No Effect Level	LD50 - Lethal Dose 50%						
RPE - Respiratory Protective Equipment	EC50 - Effective Concentration 50%						
LC50 - Lethal Concentration 50%	POW - Partition coefficient Octanol:Water						
NOEC - No Observed Effect Concentration	vPvB - very Persistent, very Bioaccumulative						
PBT - Persistent, Bioaccumulative, Toxic							

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Civil

International

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ATE - Acute Toxicity Estimate

VOC - (Volatile Organic Compound)

ADR - European Agreement Concerning the ICAO/IATA International Carriage of Dangerous Goods by Organization/International Air Transport Association Road **MARPOL** - International Convention for the Prevention IMO/IMDG -International Maritime of Pollution from Ships

Organization/International Maritime Dangerous Goods Code

OECD - Organisation for Economic Cooperation and Development

BCF - Bioconcentration factor

Key literature references and sources for data https://echa.europa.eu/information-on-chemicals https://www.guidechem.com/msds/ Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RT

Disclaimer

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End of Safety Data Sheet