

Safety Data Sheet

RMCC LLC

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



Valid from: 01-07-2022

Revision date: 20-02-2024

Version number: 3

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name:	MagPro® Paste R
Product Form:	Soft bars
Synonyms:	Brucite, magnesium oxide
CAS number	not applicable
EC number	not applicable
Molecular Weight:	not applicable
Chemical Formula:	not applicable
Registration number	not applicable (see section 15)

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

Recommended Use	Acid acceptor for rubber compounds. Curing agent for rubber compounds. Scorch retardant for rubber compounds.
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, Pavlovskaya street 7, Intracity Territory of Federal City Danilovsky Municipal District.
E-mail address	info@brucite.plus
Website	https://brucite.plus/en/

1.4. Emergency telephone number

+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 - Not required

2.3. Other hazards

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.

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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)
Magnesium oxide	1309 – 48 – 4	215 – 171 – 9	70 - 75 %	none	none	Exempted in annex V
Hydrophobic filler	Confidential	none	30 – 25 %	none	none	Full registration

3.2. Mixtures

Components

Chemical Name	CAS No	EC/List No	% (weight)	Product identifier according to 1272/2008/EC	1907/2006/EC (registration REACH)
Bis(2-ethylhexyl) terephthalate	6122 – 86 - 2	229 – 176 - 2	to 15 %	none	No 01-2119446265-39-0023

SECTION 4: First aid measures

4.1. Description of first aid measures

General Advice	Avoid inhalation, ingestion and contact with skin and eyes.
Eye Contact	Rinse out with plenty of water. Do not rub eyes.
Skin Contact	Wash with plenty of water. Wash contaminated clothing.
Ingestion	Rinse out mouth with plenty of water and spit out the fluid. After swallowing large amounts: induce vomiting.
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, burning
Skin Contact	Can cause irritation, drying, chapping
Ingestion	In large quantities causes irritation, nausea and gastrointestinal upset
Inhalation	Dust can cause temporary irritation of upper respiratory tract

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

Notes to Physician	Treat symptomatically
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use water spray, dry powder, foam or carbon dioxide. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

High volume water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards during fire-fighting: Fire will produce dense black smoke containing hazardous combustion products (see section 10)

Hazardous combustion products: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)

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5.3. Advice for firefighters

Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes. Hazardous decomposition products formed under fire conditions. Use water spray to cool unopened containers.

Special protective equipment for firefighters: In the event of fire, 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, acid binder, universal binder, sawdust). Dispose of in accordance with local regulations.

6.4. Reference to other sections

Not appropriate

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid dust formation.

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 containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture.

Materials to avoid:

No materials to be especially mentioned.

7.3. Specific end use(s)

Acid acceptor for rubber compounds. Curing agent for rubber compounds. Scorch retardant for rubber compounds.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits: No data available.

Biological limit values: No data available.

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Magnesium oxide – Exposure Limits

OSHA (PEL-TWA)	ACGIH (TLV-TWA)	Alberta (TWA)
5 mg/m ³ (Nuisance Particulate)	10 mg/m ³ (Nuisance Particulate)	10 mg/m ³ (Nuisance Particulate)
5 mg/m ³	2 mg/m ³	2 mg/m ³
5 mg/m ³ (Total Particulate)	10 mg/m ³ (Total Particulate)	10 mg/m ³ (Total Particulate)

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 Protection	Goggles complying with an approved standard
Hand Protection	Protective gloves complying with an approved standard. Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitization effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Remove gloves with care avoiding skin contamination.
Skin and body protection	Impervious clothing and shoes to prevent repeated or prolonged skin contact
Respiratory protection	Dust mask (minimum filter type P2) complying with an approved standard

Environmental exposure controls: No information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Soft bars
Colour	Light-grey to grey
Odour:	Odourless
Melting point/freezing point	No information available
Boiling point or initial boiling point and boiling range	No information available
Flammability	No information available
Lower and upper explosion limit	No information available
Flash point	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
pH	No information available
Kinematic viscosity	No information available

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Solubility:

- in water (20°C)

Almost insoluble

Partition coefficient:

- n-octanol/water (log value)

Not applicable

Vapour pressure

Not applicable

Relative density

2.1 g/ml

Relative vapour density

No information available

Evaporation rate

Not applicable

Explosive limits

Not applicable

Viscosity

No information available

Explosive properties

No information available

Oxidizing properties

Not applicable

9.2. Other information

Ash content – 74%

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Materials to Avoid: Oxidizers

10.4. Conditions to avoid

Keep away from heat and sources of ignition.

10.5. Incompatible materials

Strong acids and oxidizing agents.

10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Metal oxides

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) acute toxicity

Dermal: No data available

Inhalation: No data available

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Magnesium oxide CAS No 1309 – 48 - 4	LD50 > 5000 mg/kg (Rat)	No specific data available	No specific data available
Bis(2-ethylhexyl) terephthalate CAS No 6122 – 86 - 2	LD50 > 5000 mg/kg (Rat)	LD50 > 20 mg/kg (Rat)	No specific data available

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- (b) **skin corrosion/irritation** Not absorbed by intact skin.
- (c) **serious eye damage/irritation** No eye irritation
- (d) **respiratory or skin sensitisation** Not a skin sensitizer
- (e) **germ cell mutagenicity** No data available
- (f) **carcinogenicity** Substance is not classified as carcinogenic under ACGIH, NIOSH, IARC, NTP or OSHA
- (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

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

SECTION 12: Ecological information

12.1. Toxicity

Component	Freshwater Fish	Water Flea	Freshwater Algae
Magnesium oxide CAS No 1309 – 48 - 4	No specific data available	No specific data available	No specific data available
Bis(2-ethylhexyl) terephthalate CAS No 6122 – 86 - 2	LC50 > 984 mg/l, <i>Pimephales promelas</i>	EC50 > 1.4 µg/l, <i>Daphnia magna</i>	EC50 > 0.86 mg/l, <i>Pseudokirchnerella subcapitata</i>

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

Components: Bis(2-ethylhexyl) terephthalate

Bioconcentration factor (BCF): 393 L/kg, *Crassostrea virginica*

Partition coefficient: n-octanol/water (Log Pow): 5.72

12.4. Mobility in soil

No data available.

Components: Bis(2-ethylhexyl) terephthalate

Partition coefficient n-octanol/water (Log Koc): 5.07 – 6.6

12.5. Results of PBT and vPvB assessment

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

The product should not be allowed to enter drains, water courses or the soil. This product has no known ecotoxicological effects.

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

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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 in accordance with local regulations.

European Waste Catalogue (EWC)

According to the European Waste Catalog, Waste Codes are not product specific, but application specific

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

14.3. Transport hazard class(es)

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

Magnesium oxide: CAS No 1309 – 48 – 4; EC No 215-171-9

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

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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

China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS).

US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component	NZIoC	DSL	NDSL	IECSC	PICCS	TCSI	KECL	ENCS	ISHL	AICS	TSCA
Magnesium oxide CAS No 1309 - 48 - 4	X	X	/	X	X	X	X ¹	X ¹	X	X	X

Legend: X – Listed / - Not Listed

×¹ – Magnesium oxide:

Japan - ENCS No 1-465

Korea – KECL No KE-22728

Turkey

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

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

WEL - Workplace Exposure Limit

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

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ACGIH - American Conference of Governmental Industrial Hygienists

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment

LC50 - Lethal Concentration 50%

NOEC - No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

PNEC - Predicted No Effect Concentration

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50%

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from Ships

ATE - Acute Toxicity Estimate

VOC - (Volatile Organic Compound)

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet