

# 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:	<b>MagPro® Paste C</b>
Product Form:	viscous liquid
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	Thickening agent for unsaturated resins
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	<a href="mailto:info@brucite.plus">info@brucite.plus</a>
Website	<a href="https://brucite.plus/en/">https://brucite.plus/en/</a>

### 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	30-40 %	none	none	Exempted in annex V
Unsaturated polyester resin	Confidential	none	60-70 %	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)
Diocetyl Fumarate*	141 – 02 – 6	205 – 448 – 2	10 – 25 %	Skin Irrit. 2 H315 (69.65%) Aquatic Chronic 2 H411 (30.35%)	Full registration

\* Other name: di-2-ethylhexyl maleate

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General Advice</b>	Avoid inhalation, ingestion and contact with skin and eyes.
<b>Eye Contact</b>	Rinse out with plenty of water. Do not rub eyes.
<b>Skin Contact</b>	Wash with plenty of water. Wash contaminated clothing.
<b>Ingestion</b>	Rinse out mouth with plenty of water and spit out the fluid. After swallowing large amounts: induce vomiting.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>Self-Protection of the First Aider</b>	No special precautions required.

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

<b>Eye Contact</b>	Can cause irritation, redness, tearing, burning
<b>Skin Contact</b>	Can cause irritation, drying, chapping
<b>Ingestion</b>	In large quantities causes irritation, nausea and gastrointestinal upset
<b>Inhalation</b>	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

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Flash point:** >105°C

**Flammability (solid, gas):** Ignitable (see flash point)

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable extinguishing media:** High volume water jet.

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## **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)

## **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.

#### **Materials to avoid:**

No materials to be especially mentioned.

### **7.3. Specific end use(s)**

Thickening agent for unsaturated resins

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Exposure limits:** No data available.

**Biological limit values:** No data available.

#### *Magnesium oxide – Exposure Limits*

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

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.

Hand Protection

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**

Liquid

**Colour**

Light-grey to grey

**Odour:**

Characteristic

**Melting point/freezing point**

No information available

**Boiling point or initial boiling point and boiling range**

No information available

**Flammability**

Ignitable (see flash point)

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<b>Lower and upper explosion limit</b>	No information available
<b>Flash point</b>	>105°C
<b>Auto-ignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>pH</b>	No information available
<b>Kinematic viscosity</b>	No information available
<b>Solubility:</b>	
- in water (20°C)	Insoluble
<b>Partition coefficient:</b>	
- n-octanol/water (log value)	Not applicable
<b>Vapour pressure</b>	Not applicable (not volatile)
<b>Relative density</b>	No information available
<b>Relative vapour density</b>	No information available
<b>Evaporation rate</b>	Not applicable
<b>Explosive limits</b>	Not applicable
<b>Viscosity</b>	No information available
<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	Not applicable

## **9.2. Other information**

none

## **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**

No dangerous reaction known under conditions of normal use.

### **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
<b>(a) acute toxicity</b>	Dermal: No data available
	Inhalation: No data available

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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
Diethyl Fumarate* CAS No 141 – 02 – 6	LD50 = 29 200 mg/kg (Rat)	LD50 > 20 000 mg/kg (Rabbit)	No specific data available

\* Other name: di-2-ethylhexyl maleate

- (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** Components:  
Diethyl Fumarate = 1000 mg/kg (OECD Test Guideline 408)
- (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 disruptors.

## **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
Diethyl Fumarate* CAS No 141 – 02 – 6	LC50 (35 d) = 0,3 mg/l, <i>Oncorhynchus mykiss</i>	EC50 (24h) = 0,76 mg/l, <i>Daphnia magna</i>	EC50 (48h) = 100 mg/l, <i>Pseudokirchnerella subcapitata</i>

\* Other name: di-2-ethylhexyl maleate

### 12.2. Persistence and degradability

No data available.

**Components: Diethyl Fumarate**

Biodegradation: 48,8 %

Exposure time: 28 d

Remarks: Not rapidly biodegradable

### 12.3. Bioaccumulative potential

No data available.

**Components: Diethyl Fumarate**

Bioconcentration factor (BCF): 243

Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water (Log Pow): 7,9

### 12.4. Mobility in soil

No data available.

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## **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.

### ***Components: Dioctyl Fumarate***

The product should not be allowed to enter drains, water courses or the soil. Toxic to aquatic life with long lasting 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

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

#### **Other Information**

## **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



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## **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

Diocetyl Fumarate: CAS No 141 – 02 – 6; EC No 205 – 448 – 2

**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

**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 <sup>1</sup>	X <sup>1</sup>	X	X	X
Diocetyl Fumarate CAS No 141 – 02 – 6	X	/	/	X	X	/	/	/	/	/	X

Legend: X – Listed / - Not Listed

×<sup>1</sup> – 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



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## 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

**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

**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

**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**