

PRODUCT SAFETY DATA SHEET

prepared in accordance with Annex II of REACH regulation (EC) 1907/2006,
regulation (EC) 1272/2008 and regulation (EC) 453/2010



Trade name: **Dolomite powder**

create date: 01.01.2022

1 IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Substance name: Dolomite
Synonyms: Calcium magnesium carbonate
Please note that this list may not be exhaustive.
Chemical name and formula: Calcium magnesium carbonate – $\text{CaCO}_3 \cdot \text{MgCO}_3$
Trade name: Milled Dolomite, Dolomite Powder
CAS: 16389-88-1
EINECS: 2404402
Molecular Weight: about 184 g/mol
REACH Registration number: In accordance with Annex V No. 7 of Regulation (EC) No 1907/2006 the product is exempt of registration requirement.

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

Use of substance - the substance is intended for the following non-exhaustive list of uses:

Ceramics industry, chemical industry, animal food, food, paint- and lacquer-industry, building material, agriculture

There are no uses advised against. Regardless, the responsibility for the assessment of the feasibility in its use remains with the user.

1.3 Details of the supplier of the substance or mixture

Name: REF-SAN IZOLASYON SAN.TIC.LTD.STI.
Address: Inkoy Mh. Perli Yolu Cd. No:19 MERKEZ / KUTAHYA
Phone No: +90 274 225 17 18
Fax No: +90 274 225 17 20
E-mail of competent person responsible for SDS in the MS or in the EU: refsan@refsan.com.tr

1.4 Emergency telephone number

Emergency telephone at the company +90 850 255 0 274

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance

The product is not classified.

2.2 Label elements

none

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2.3 Other hazards

No other hazards identified.

When handling dolomite mineral dust may arise. The regulations for handling of mineral dust are valid (i.g. BGI 5047 " Mineralischer Staub ".)

The substance does not meet the criteria for PBT or vPvB substance.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Main constituent

Dolomite is a natural occurring sedimentary rock and mainly consist of Calcium magnesium carbonate.

CaCO₃ * MgCO₃ crystalline Calcium magnesium carbonate (Dolomite)

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Impurities

No impurities relevant for classification and labelling.

Total content of silica measured by XRF is less than 0.5%.

4 FIRST AID MEASURES

4.1 Description of first aid measures

General advice

No known delayed effects. No special actions required.

Following inhalation

Remove source of dust or move person to fresh air. If necessary seek medical advice.

Following skin contact

Wash affected area immediately with water and soap.

Following eye contact

Rinse eyes immediately with plenty of water; remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice in the case eye irritation persists.

After ingestion

not applicable

4.2 Most important symptoms and effects, both acute and delayed

Calcined dolomite is not acutely toxic via the oral, dermal, or inhalation route.

4.3 Indication of any immediate medical attention and special treatment needed

Follow the advises given in section 4.1

5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: The product is not combustible. Use a dry powder, foam or CO₂ fire extinguisher to extinguish the surrounding fire.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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5.2 Special hazards arising from the substance or mixture

None

5.3 Advice for fire fighters

Avoid generation of dust. Use breathing apparatus. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Keep dust levels to a minimum; avoid generation of dust.

Avoid inhalation of dust – ensure that sufficient ventilation or suitable respiratory protective equipment is used, wear suitable protective equipment in the case of transgression values of TRGS 900 (see section 8).

6.2 Environmental precautions

Avoid unnecessary generation of dust.

6.3 Methods and material for containment and cleaning up

Avoid generation of dust.

Pick up the product mechanically in a dry way or with water. Do not sweep dry.

Use vacuum suction unit, or shovel into bags.

6.4 Reference to other sections

For more information on exposure controls/personal protection or disposal considerations, please check section 8 and 13 and the annex of this safety data sheet.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures

Keep dust levels to a minimum. Minimize dust generation. Enclose dust sources, use exhaust ventilation (dust collector at handling points). Handling systems should preferably be enclosed.

7.1.2 Advice on general occupational hygiene

General occupational hygiene measures are required to ensure safe handling of the substance. These measures involve good personal and housekeeping practices (i.e. regular cleaning with suitable cleaning devices), no drinking, eating and smoking at the workplace. Shower and change clothes at end of work shift. Do not wear contaminated clothing at home.

7.2 Conditions for safe storage, including any incompatibilities

Avoid generation of dust. The substance should be stored under dry conditions. Keep away from acids.

7.3 Specific end use(s)

Not applicable

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

National OELs for the substance: not available

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General dust limit: Germany: 3 mg/m³ (A), 10 mg/m³ (E)

8.2 Exposure controls

Use exhaust ventilation (dust collector at handling points). Wear suitable protective equipment in the case of transgression of dust limits.

8.2.1 Appropriate engineering controls

Not applicable.

8.2.2 Individual protection measures, such as personal protective equipment

8.2.2.1 Eye/face protection

For general protection do wear protective goggles.

8.2.2.2 Skin protection

Before breaks and end of work wash hands. If necessary, use barrier cream.

8.2.2.3 Respiratory protection

Do avoid breathing of dust. Local ventilation to keep levels below established threshold values is recommended. A suitable particle filter mask (P1 – P3) is recommended, depending on the expected exposure levels.

8.2.2.4 Thermal hazards

Not applicable

8.2.3 Environmental exposure controls

All ventilation systems should be filtered before discharge to atmosphere. Avoid releasing to the environment. Contain the spillage.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	white till pale grey or creme solid material of varying sizes: granular
Odour:	odourless
Odour threshold:	not applicable
pH:	9.5 - 10.5 (saturated solution at 20 °C)
Melting point:	> 450 °C
Boiling point:	not applicable
Flash point:	not applicable
Evaporation rate:	not applicable
Flammability:	non flammable
Explosive limits:	non explosive (void of any chemical structures commonly associated with explosive properties)
Oxidising properties:	no oxidising properties (Based on the chemical structure, the substance does not contain a surplus of oxygen or any structural groups known to be correlated with a tendency to react exothermally with combustible material)
Auto ignition temperature:	no relative self-ignition temperature below 400 °C (study result, EU A.16 method)
Decomposition temperature:	not applicable (> 600 °C liberation of carbon dioxide)
Vapour pressure:	not applicable

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Vapour density:	not applicable
Relative density:	2.88 g/m ³
Bulk density:	0.55 – 1.1 g/cm ³
Solubility in water:	1.8 mg/l
Partition coefficient:	not applicable (inorganic substance)
Viscosity:	not applicable (solid with a melting point > 450 °C)

9.2 Other information

Not available

10 STABILITY AND REACTIVITY**10.1 Reactivity**

Slightly soluble.

10.2 Chemical stability

Under normal conditions of use and storage, dolomite is stable.

10.3 Possibility of hazardous reactions

Calcium magnesium carbonate reacts exothermically with acids.

When heated above 600 °C, calcium magnesium carbonate decomposes to produce calcium magnesium oxide (CaO*MgO) and carbon dioxide (CO₂). Calcium oxide reacts with water and generates heat. This may cause risk to flammable material.

10.4 Conditions to avoid

None

10.5 Incompatible materials

Dolomite reacts exothermically with acids to form salts and carbon dioxide.

10.6 Hazardous decomposition products

None.

11 TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

In the case of long-term exposure in a high dust load a chronic airway inflammation can be caused.

Dust may mechanically irritate the eyes.

12 ECOLOGICAL INFORMATION**12.1 Toxicity**

No toxic effect known

12.2 Persistence and degradability

Not relevant for inorganic substances

12.3 Bioaccumulative potential

Not relevant for inorganic substances

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12.4 Mobility in soil

Dolomite is sparingly soluble and presents a low mobility in most soils.

12.5 Results of PBT and vPvB assessment

Not relevant for inorganic substances

12.6 Other adverse effects

No other adverse effects are identified

13 DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Disposal of dolomite should be in accordance with local and national legislation. Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents in accordance with applicable member state and local requirements.

Waste No.	EWC	010408
Name of waste	Waste of broken gavel and rocks	

14 TRANSPORT INFORMATION

Dolomite is not classified as hazardous for transport
ADR (Road), RID (Rail), ICAO/IATA (Air), AND (Inland waterways) and IMDG (Sea)

14.1 UN-Number Not regulated

14.2 UN proper shipping name Not regulated

14.3 Transport hazard class(es) Not regulated

14.4 Packing group Not regulated

14.5 Environmental hazards

There are known none negative environmental effects of dolomite. Dolomite is a natural product (naturally occurring rocks of the Earth's crust).

14.6 Special precautions for user

Avoid any release of dust during transportation, by using air-tight tanks for powders and covered trucks for pebbles.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not regulated

15 REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance**

Restrictions on use: None

Other EU regulations: Dolomite is no hazardous substance, not a SEVESO substance, not an ozone depleting substance and not a persistent organic pollutant.

Additionally: Principles of occupational medicine, national regulations, information of professional association etc.

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15.2 Chemical safety assessment

Not applicable

16 OTHER INFORMATION

Data are based on our latest knowledge but do not constitute a guarantee for any specific product features and do not establish a legally valid contractual relationship. Employees have to be trained on installation and handling of bulk solid and dusty materials.

16.1 Hazard Statements

Not applicable

16.2 Precautionary Statements

Not applicable

16.3 Risk Phrases

Not applicable

16.4 Safety Phrases

Not applicable

16.5 Abbreviations

EWC: European Waste Catalog

16.6 Key literature references

16.7 Revision

All chapters have been revised in layout and have been unified based on valid rules.

Disclaimer

This safety data sheet (SDS) is based on the legal provisions of the REACH Regulation (EC 1907/2006; article 31 and Annex II), as amended. Its contents are intended as a guide to the appropriate precautionary handling of the material. It is the responsibility of recipients of this SDS to ensure that the information contained therein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. Information and instructions provided in this SDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship. This version of the SDS supersedes all previous versions.
