

DOLOMITE POWDER

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SECTION 1: IDENTIFICATION

1.1 GHS Product identifier:

DOLOMITE POWDER
Calcium magnesium carbonate
CAS: 16389-88-1

Other means of identification:

Not relevant

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Agricultural soil conditioner/liming agent (Ca & Mg source), glass and ceramics raw material, filler in paints/plastics/rubber, refractory and construction material, animal feed mineral supplement. For industrial user only.
Uses advised against: All uses not specified in this section or in section 7.3.

1.3 Supplier's details:

SURAJ CHEMICALS
No 92, Govindappa Naicken Street, Shiva Complex, Chennai – 600001, Tamil Nadu, India
Tel: +91 - 7092722822, +91 - 9840284032 / +91 - 44 - 25393652, 42130281
Email: sales@surajchemicals.com | Website: www.surajchemicals.com
GST No: 33ACEPV8190L1ZZ

1.4 Emergency phone number:

Emergency Contact No: +91 - 7092722822, +91 - 9840284032

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

GHS:
Based on available data, the classification criteria of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) are not met. This product is not classified as hazardous.

2.2 GHS label elements, including precautionary statements:

GHS: Not classified – no signal word required

Hazard statements:

None required.

Precautionary statements:

P260: Avoid breathing dust.
P280: Wear protective gloves/protective clothing/eye protection.
P264: Wash hands thoroughly after handling.
P501: Dispose of contents/container in accordance with local/national regulations.

2.3 Other hazards which do not result in classification:

Natural mineral dust; depending on the mineral deposit, trace crystalline silica may be present – consult supplier's certificate of analysis for the specific lot if respirable crystalline silica content is a concern for prolonged occupational dust exposure.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

Chemical description: DOLOMITE POWDER
In accordance with Annex 4.3.3 of the GHS, the product contains:

Identification	Chemical Name / Classification	Concentration
CAS: 16389-88-1	DOLOMITE POWDER — Not classified as hazardous under GHS	Natural mineral (predominantly CaMg(CO3)2); exact assay available on request

To obtain more information on the hazards of the substances, consult sections 11, 12 and 16.

3.2 Mixtures:

Non-applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of necessary first-aid measures:

Request medical assistance immediately, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure to fresh air and keep at rest. If dust has been inhaled and irritation or breathing difficulty persists, seek medical attention.

By skin contact:

Remove contaminated clothing and footwear. Wash affected skin thoroughly with plenty of water and soap. If irritation develops or persists, seek medical attention.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes, holding eyelids open. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.

By ingestion/aspiration:

Rinse mouth with water. Do NOT induce vomiting. If conscious, give plenty of water to drink. Seek medical attention immediately, especially if large quantities were ingested.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Not relevant – treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:

Suitable: Not combustible – use extinguishing media suited to the surrounding fire.
Unsuitable: None known.

5.2 Specific hazards arising from the chemical:

Non-combustible, non-explosive.

5.3 Special protective actions for fire-fighters:

No special measures required beyond those for the surrounding fire.

Additional provisions:

If safe to do so, remove exposed containers from the fire area. Use water spray to cool fire-exposed containers/structures. Avoid generating and inhaling dust.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Avoid raising and inhaling dust. Use personal protective equipment as described in Section 8. Evacuate the area and keep unprotected persons away.

For emergency responders:

Wear appropriate protective equipment as described in Section 8. Ensure adequate ventilation.

6.2 Environmental precautions:

Naturally occurring, low-hazard mineral; avoid large-scale release to watercourses (turbidity/physical impact).

6.3 Methods and materials for containment and cleaning up:

Sweep up or vacuum spilled material (avoid generating dust) and place in a suitable closed, labelled container for recovery or disposal. Wash the spill area with water after solid material has been removed.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A. General precautions for safe use:

Avoid generating and breathing dust during bulk handling. Keep away from incompatible materials (see section 10).

B. Technical recommendations for the prevention of fires and explosions:

Product is non-combustible; no special fire-prevention measures required.

C. Technical recommendations on general occupational hygiene:

Do not eat, drink or smoke during handling. Wash hands and exposed skin thoroughly after handling and before breaks/meals.

D. Technical recommendations to prevent environmental risks:

Avoid release to the environment. Follow the protective measures given in Section 8. For bulk storage/handling, consult Suraj Chemicals.

7.2 Conditions for safe storage, including any incompatibilities:

A. Specific storage requirements:

Minimum Temp.	Ambient (no minimum requirement)
Maximum Temp.	40°C
Maximum time	Indefinite under normal dry storage (inert mineral)

B. General conditions for storage:

Store in a dry, covered area. Chemically stable indefinitely under normal storage conditions.

7.3 Specific end use(s):

Except for the instructions already specified, it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be assessed in the workplace, per the Factories Act, 1948 (Act No. 63 of 1948), as amended by the Factories (Amendment) Act, 1987 (Act 20 of 1987):

Identification	Occupational Exposure Limit Type	Value
Particulates Not Otherwise Regulated (inert/nuisance dust)	Time Weighted average concentration (8 hrs)	10 mg/m³ (inhalable) / 4 mg/m³ (respirable) – general guideline

8.2 Appropriate engineering controls:

Use local exhaust ventilation or general dilution ventilation to keep airborne concentrations below occupational exposure limits. Consult the manufacturer’s information leaflet for storage, use, cleaning and maintenance of PPE.

B. Respiratory protection:

Dust mask (type P1/P2) recommended in poorly ventilated or dusty bulk-handling conditions.

C. Specific protection for the hands:

Standard work gloves.

D. Eye and face protection:

Safety glasses/goggles recommended when handling dusty material.

E. Bodily protection:

Standard work clothing.

F. Additional emergency measures:

Emergency eyewash station and safety shower should be available in the immediate work area (ANSI Z358-1 / ISO 3864 or equivalent).

Environmental exposure controls:

Avoid environmental spillage of both the product and its container. See subsection 7.1.D.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance	
Physical state at 20°C	Solid (powder)
Appearance	Fine mineral powder
Color	White to greyish-white
Odor	Odorless
Odour threshold	Not established
Melting point/freezing point	Not applicable – decomposes on strong heating

Boiling point at atmospheric pressure	Not relevant *
Density / Relative density at 20°C	2.84 – 2.86 g/cm³
Bulk density	1300 – 1500 kg/m³ (typical, powder)
Solubility in water at 20°C	Practically insoluble (<0.01 g/100mL)
pH (10% aqueous suspension)	8.5 – 9.5
Vapour pressure at 20°C	Not relevant *
Partition coefficient n-octanol/water	Not relevant (insoluble inorganic mineral)
Decomposition temperature	~730 – 900°C (releases CO2, calcination)
Flammability	
Flash Point	Non-applicable (non-combustible solid)
Flammability (solid, gas)	Not classified as flammable
Autoignition temperature	Not relevant *
Lower / Upper flammability limit	Not relevant *
Particle Characteristics	
Median particle size	Available on request (grade/mesh-size dependent)

* Not relevant due to the nature of the product, not providing information on the properties of its hazards.

9.2 Other information:

Explosive properties	Not explosive
Oxidising properties	Not oxidising
Corrosive to metals	Not relevant *
Heat of combustion	Not relevant *
Surface tension at 20°C	Not relevant *
Refraction index	Not relevant *

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

Chemically stable. Reacts with acids, liberating carbon dioxide gas.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Shock/Friction	Contact with Air	Increase in Temperature	Sunlight	Humidity
Not applicable	Not applicable	Avoid excessive heat	Not applicable	Avoid contact with moisture (may cake/hydrolyse)

10.5 Incompatible materials:

Incompatible with	Reason/Effect
Strong acids	Reacts, liberating carbon dioxide gas

10.6 Hazardous decomposition products:

No hazardous decomposition products under normal conditions of storage and use.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

In case of exposure that is repetitive, prolonged, or at concentrations higher than the recommended occupational exposure limits, adverse health effects may result depending on the means of exposure:

A. Ingestion (acute effect):

Practically non-toxic; not expected to cause harm other than possible mild gastrointestinal discomfort if large quantities are ingested.

B. Inhalation (acute effect):

Dust may cause mechanical/nuisance irritation of the respiratory tract; prolonged excessive dust inhalation should be avoided using standard dust controls.

C. Contact with skin and eyes (acute effect):

Dust may cause mechanical irritation to eyes; not expected to irritate skin.

D. CMR effects (carcinogenicity, mutagenicity, reproductive toxicity):

Classification criteria for carcinogenicity, mutagenicity and reproductive toxicity are not met based on available data. IARC: Not listed.

E. Sensitizing effects:

Classification criteria for respiratory or skin sensitisation are not met based on available data.

F. Specific target organ toxicity (STOT) – single exposure:

Classification criteria are not met based on available data, except as noted in Section 2.

G. Specific target organ toxicity (STOT) – repeated exposure:

Classification criteria are not met based on available data.

H. Aspiration hazard:

Classification criteria are not met based on available data (not a liquid hydrocarbon).

Product-specific toxicological information:

Identification	Acute Toxicity	Genus
DOLOMITE POWDER CAS: 16389-88-1	LD50 oral: >2000 mg/kg (practically non-toxic mineral)	Rat
	LD50 dermal: >2000 mg/kg	Rabbit
	LC50 inhalation: Not established	–

SECTION 12: ECOLOGICAL INFORMATION

Very low toxicity to aquatic organisms; naturally occurring mineral, not classified as hazardous to the environment.

12.1 Toxicity:

Identification	Acute Toxicity	Species	Genus
Dolomite CAS: 16389-88-1	LC50: >100 mg/L (96h, limit test)	Fish (various species)	Fish

12.2 Persistence and degradability:

Inorganic mineral – not subject to biodegradation.

12.3 Bioaccumulative potential:

Not expected to bioaccumulate (practically insoluble).

12.4 Mobility in soil:

Koc	Henry	Dry Soil	Moist Soil
Not relevant	Not relevant	Soluble in water – may leach in soil	Soluble in water – may leach in soil

12.5 Results of PBT and vPvB assessment:

Non-applicable – inorganic, insoluble mineral; does not meet PBT/vPvB screening criteria.

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Inert mineral solid; may generally be disposed of as non-hazardous industrial waste in accordance with local regulations, or via a licensed waste contractor.

Do not discharge to drains, soil or surface water. Dispose of via a licensed hazardous/industrial waste contractor in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (India) and other applicable national/local regulations. Empty containers may retain product residue – handle empty containers with the same precautions as full ones.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land (ADR 2023 / RID 2023):

14.1 UN number	Not assigned
14.2 UN proper shipping name	Non-Dangerous Goods for transport under ADR/RID, IMDG and IATA/ICAO
14.3 Transport hazard class(es)	Not applicable
14.4 Packing group	Not applicable
14.5 Environmental hazard	No
14.6 Special precautions for user	Physico-chemical properties: see section 9
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

Transport of dangerous goods by sea (IMDG 41-22):

14.1 UN number	Not assigned
14.2 UN proper shipping name	Non-Dangerous Goods for transport under ADR/RID, IMDG and IATA/ICAO
14.3 Transport hazard class(es)	Not applicable
14.4 Packing group	Not applicable
14.5 Marine pollutant	No
14.6 Special precautions for user	Physico-chemical properties: see section 9
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

Transport of dangerous goods by air (IATA/ICAO 2024):

14.1 UN number	Not assigned
14.2 UN proper shipping name	Non-Dangerous Goods for transport under ADR/RID, IMDG and IATA/ICAO
14.3 Transport hazard class(es)	Not applicable
14.4 Packing group	Not applicable
14.5 Environmental hazard	No
14.6 Special precautions for user	Physico-chemical properties: see section 9
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of local circumstances, in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989
The Factories Act, 1948 (Act No. 63 of 1948), as amended by the Factories (Amendment) Act, 1987 (Act 20 of 1987)
The Chemical Accidents (Emergency Planning, Preparedness, and Response) Rules, 1996
Public Liability Insurance Act, 1991
Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Annex 4 – Guidance on the preparation of Safety Data Sheets of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Texts of the legislative phrases mentioned in sections 2 and 3:

Not applicable – no hazard statements apply to this product.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

The United Nations Economic Commission for Europe (UNECE); European Chemicals Agency (ECHA) classification and labelling inventory; publicly available chemical safety literature for this substance.

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road | IMDG: International maritime dangerous goods code | IATA: International Air Transport Association | ICAO: International

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product; it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within Suraj Chemicals' awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

END OF SAFETY DATA SHEET