



SAFETY DATA SHEET

CALUMITE®

Date written: April 2024

Date of last revision: April 2025

Version: 2

SECTION 1: Identification of the substance and company

1.1 Product identifier

Product Name: Calumite
Registered trademark: Calumite®
CAS NO: 65996-69-2
EINECS: 266-002-0

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

Raw material for the glass industry

1.3 Information concerning the supplier of the safety data sheet.

Supplier: CALUMITE INDIA PRIVATE LIMITED
Address: Survey No. 362, Near Mahuvej - Nandav Highway Crossing, N. H. No. 48,
Village : Mahuvej, Tal : Mangrol, Dist. : Surat – 394 125 (Gujarat) INDIA.
Email : info@calumite.in / ht@calumite.in

1.4 Emergency number.: **108**

Telephone : + 91 99099 53375 / + 91 90333 03366

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Classification of the substance: This substance is not classified as dangerous substance.
Effects on human health: Slightly alkaline substance. Risk of irritation to dust.
Skin contact: Acute effects: risk of irritation in the event of prolonged contact.
Contact with eyes: Acute effects: risk of irritation
Inhalation: Acute effects: risk of respiratory tract irritation if dust is inhaled.
Ingestion: Risk of irritation.
Environmental effects: This substance is not classified as dangerous according to environmental effects.

2.2 Labelling information : Not concerned

2.3 Other hazards Irritation of the eyes and respiratory tract by mechanical

SECTION 3: Composition/information on Ingredients

3.1 Substance.

EINECS: 266-002-0
CAS NO. 65996-69-2
Substance name: **Calumite**, bonded Ca/Mg/Al complex silicate compound
Impurities: no impurities affecting classification or labelling

3.2 Mixing. No mixing.

SECTION 4: First aid

4.1 First aid description.

Particular risk: Alkaline dusts, Risk of formation of irritant dusts
Eye contact: In case of contact with eyes, use a neutralizing solution: I Diphoterine®. Rinse immediately with water. Seek medical advice.
Inhalation: In the event of an accident by inhalation, move the victim away from the contaminated area, taking all necessary precautions, and leave him/her to rest. If consciousness is impaired, place the victim on their side in a safe position while



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awaiting medical assistance. In the event of breathing difficulties, provide respiratory assistance while awaiting medical assistance. Consult a doctor.

Skin contact:

Use a neutralizing solution such as Diphoterine®. Wash with plenty of water. Do not use solvents or thinners. If skin irritation occurs or if contamination is extensive and prolonged, consult a doctor.

Protective equipment: Wear suitable gloves, respiratory protection (dust) and safety goggles.

4.2 Main symptoms and effects, acute and delayed.

See 2.1

4.3 Identification of any immediate medical care and special treatment required

See 4.1

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Foam (alcohol resistant), carbon dioxide powder, spray (water). The product is not flammable. Adapt extinguishing measures to the flammable environment.

5.2 Special hazards arising from the substance or mixture.

Fire: None.

Explosion: None.

Reactivity: None.

5.3 Advice for firefighters

No specific advice.

5.4 Other information

In all cases, wear self-contained breathing apparatus, do not breathe vapours and move away from the cloud of fumes.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures.

For non-rescuers: Keep unprotected people away and stay downwind. Avoid generating dust.

For first aiders: Wear personal protective equipment. Make sure there is plenty of ventilation.

6.2 Environmental precautions

Do not discharge directly into drains or the natural environment

6.3 Methods and equipment for containment and cleaning up

Collect mechanically, avoiding the formation of dust (the product can be moistened beforehand)

Large quantities of dust can make the floor slippery. Sweep and wash the floor, and collect the residues.

6.4 Reference to other sections.

None.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid dust formation. Avoid contact with skin and eyes. Avoid inhalation of dust.

Wear appropriate work clothing, respiratory protection, gloves and safety glasses. Do not eat or drink during handling.

7.2 Conditions for safe storage, including any incompatibilities

Store the substance in a dry place



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7.3 Specific end use(s)

See 1.2 The chemical safety report has been prepared by the manufacturer with the conclusion that, in all its intended uses, including use in the glass industry, **Calumite** does not possess hazardous properties.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters.

DNEL: the value is not determined: the substance is not dangerous.

PNEC: the value is not determined: the substance is not dangerous.

8.2 Exposure controls.

Appropriate technical controls.

Respiratory protection: must wear a respiratory protection mask (in case of dust formation)
EN149 FFP2 filter

Hand protection: wear work gloves suitable for alkaline products.

Eye protection: safety glasses

Skin protection: wear work clothing suitable for alkaline products

Thermal risks: none.

Emergency facilities: safety showers. Eye wash station.

Other information: safety footwear.

Environmental exposure: do not discharge directly into drains or the natural environment.

Hygiene measures: avoid contact with skin and eyes. Shower at the end of work
Wash hands, especially before meals.

SECTION 9: Physical and chemical properties

9.1 Information on essential physical and chemical properties

Aspect

- Physical condition

Solid

- Colour

Grey

- Odour

Odourless

- Odour threshold

-

- pH

10-12 (eluate compliant with EN 12457-4)

Melting point

> 1100 - 1400°C

Initial boiling point and boiling range

-

Flash point

Calumite is an inert inorganic substance in which all the most important ingredients are in their most stable oxidation state. No other spontaneous oxidation takes place. Even if there are oxidisable components (e.g. graphite, traces of metal), no combustible gas phase can be generated from **Calumite**.

Evaporation speed

not applicable: melting point > 1000°C

Flammability (solid, gas)

non-flammable

Upper/lower flammability or explosive limits

-

Vapour pressure

-

Vapour density

-

Relative density

Approx. 2-3 g/cm³ (20°C)

Solubility(s) - Solubility in water

< 100 mg/l

- Fat solubility

-

Partition coefficient:

n-octanol/water

Not applicable: **Calumite** consists almost exclusively of inorganic ions in a glassy matrix or in crystalline lattices. These ions are insoluble in organic solvents, including 2-octanol.



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Auto-ignition temperature

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Not applicable: As **Calumite** is an inert inorganic substance in which all the constituents are in their most stable oxidation state, there is no spontaneous oxidation. Not applicable.

Decomposition temperature
Viscosity - Dynamic viscosity
- Kinematic viscosity

not applicable: melting point > 1000°C]

-

Explosive properties

Not applicable: due to physical condition

As **Calumite** is an inert inorganic substance in which all the relevant ingredients are in their most stable oxidation state. **Calumite** does not contain any chemical substances with explosive properties.

Oxidising properties

Non-oxidising: As the raw material from which Calumite produced is formed at temperatures > 1000°C and are free from substances that can react exothermically with combustible materials under standard conditions.

Particle properties

The properties of **Calumite** particles depend on the field of application. Depending on the intended use, **Calumite** is specifically processed into different particle sizes.

Buffer capacity

The alkaline reserve (buffer capacity, reference value calculated according to the method of Young et al. (1988)) is <14.5. This means that the LG eluates are not corrosive.

Ignition temperature

Not applicable: As **Calumite** is an inert inorganic substance in which all the constituents are in their most stable oxidation state, there is no spontaneous oxidation.

9.2 Other information

No other information

SECTION 10: Stability and reactivity

10.1	Reactivity	Not concerned
10.2	Chemical stability	Stable under normal conditions
10.3	Possibility of dangerous reactions	Chemically stable under normal conditions
10.4	Conditions to avoid	Not determined
10.5	Incompatible materials	Avoid contact with acidic products
10.6	Hazardous decomposition products.	None

SECTION 11: Toxicological information

11.1 Information on toxicological effects

For substances belonging to the following hazard categories (including brief summary of available test results and process indications): Acute toxicity

- Oral	Substance tested GBS OECD 401 method, Wistar rat LD50 > 2000 mg/kg (CSR), Substance tested GGBS
- Inhalation	OECD 403 method, Wistar rat LC50 (powder) (4 h) >> 5234 mg/m ³ (CSR) OECD 412 method (toxicity by repeated exposure via inhalation: 28 days), Wistar rat NOAEL (no observable adverse effect level) > 24.9 µg/L (Aerosol) , Substance tested ABS
- Skin	OECD 402 method, Wistar rat LD50 > 4000 mg/kg (CSR)
Caustic/irritant effect on the skin	Substance tested ABS : Acute irritant effect, OECD 404, New Zealand White rabbit, Result : non-irritant (CSR)
Caustic/irritating effect on the eyes	Substance tested ABS : Acute irritant effect, OECD 405, New Zealand White rabbit, Result : non-irritant (CSR)
Skin sensitisation	Substance tested ABS OECD 406 process, Dunkin-Hartley guinea pig Result: non-sensitising (CSR)



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Germ cell mutagenicity

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Mutagenicity: substance tested HOS (ABS) LG (GBS), reverse mutation test, EU method B.13 / 14 (new: OECD 471), Salmonella typhimurium. Result: no mutagenic effect.

Mutagenicity: substance tested HOS (ABS) LG (GBS), gene mutation test on mammalian cells, EU method B.17, Chinese hamster lung fibroblasts (V79). Result: no mutagenic effect.

Carcinogenicity

There are no specific, reliable carcinogenicity studies on animals. However, one study that has been evaluated indicates that there is no carcinogenic potential in **Calumite**.

Reproductive toxicity

No evidence from recent tests or other data on effects on fertility. No data available from studies specifically conducted to investigate reproductive harm. **Calumite**, which resembles a natural rock, produces no toxic effects on reproduction.

Specific target organ toxicity (single exposure)

The results of the acute toxicity tests do not indicate a STOT potential for **Calumite**.

Specific toxicity for certain target organs in the event of repeated exposure

The results of a repeated inhalation toxicity test (28 days) do not indicate any STOT potential for **Calumite**.

Aspiration hazard

Calumite is solid substances and do not meet the requirements for classification as aspiration hazards under the CLP Regulation (Annex 1).

Endocrine disruptor

No known endocrine disrupting properties.

11.2 Other information

No

SECTION 12: Ecological information

12.1 Toxicity

Toxicity for fish

Short-term toxicity for fish, substance tested GBS
OECD 203, Leuciscus idus

LC₅₀ (96 h) > 100 g/l LC₅₀ (96 h) > 100 g/l (CSR)

Toxicity to daphnia and other aquatic invertebrates

Substance tested GBS LG, OECD 202, Daphnia magna
EC₅₀ (48 h) > 100 g/l EC₅₀ (48 h) > 100 g/l (CSR)

Long-term toxicity aquatic invertebrates, test substance ABS GBS LG, OECD 211, Daphnia magna

EC₁₀ (21 d) > 5 g/l EC₂₀ (21 d) > 5 g/l EC₅₀ ... (21 d) > 5 g/l (CSR)

Toxicity to micro-organisms

Substance tested ABS GBS LG
OECD 209, activated sludge

EC₁₀ (3 h) > 10 g/l EC₅₀ (3 h) > 10 g/l EC₁₀₀ (3 h) > 10 g/l (CSR)

Toxicity to algae

Substance tested GBS LG
OECD 201, Scenedesmus subspicatus

IC₁₀ (72 h) > 100 g/l IC₅₀ (72 h) > 100 g/l (CSR)

Toxicity for fish

Short-term toxicity for fish, substance tested GBS
OECD 203, Leuciscus idus

LC₅₀ (96 h) > 100 g/l LC₅₀ (96 h) > 100 g/l (CSR)

Toxicity to daphnia and other aquatic invertebrates

Substance tested GBS LG, OECD 202, Daphnia magna
EC₅₀ (48 h) > 100 g/l EC₅₀ (48 h) > 100 g/l (CSR)

Long-term toxicity aquatic invertebrates, test substance ABS GBS LG, OECD 211, Daphnia magna

EC₁₀ (21 d) > 5 g/l EC₂₀ (21 d) > 5 g/l EC₅₀ ... (21 d) > 5 g/l (CSR)

Toxicity to micro-organisms

Substance tested ABS GBS LG, OECD 209, activated sludge
EC₁₀ (3 h) > 10 g/l EC₅₀ (3 h) > 10 g/l EC₁₀₀ (3 h) > 10 g/l (CSR)

Toxicity to algae

Substance tested GBS LG OECD 201, Scenedesmus subspicatus
IC₁₀ (72 h) > 100 g/l IC₅₀ (72 h) > 100 g/l (CSR)



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12.2 Persistence and degradability

The methods for determining biological degradability are not applicable to mineral substances.

12.3 Bioaccumulation potential

No indication of bioaccumulation potential.

12.4 Mobility in soil

Calumite is a substance (CVCB)
(Unknown or Variable composition, Complex reaction products or Biological materials) similar to natural rock. Biological degradation is not significant.

12.5 Results of PBT assessments

Not applicable to inorganic substances (non-toxic and non-bio accumulative)

12.6 Endocrine disruptor

No known endocrine disrupting properties

12.7 Other adverse effects

None

SECTION 13: Disposal considerations.

13.1 Waste treatment methods.

Valorisation method: Substance resulting from an industrial process, but which is not the end product of this process. This substance is sold as a raw material to glassmakers.

Used packaging, cleaning procedures: destruction of packaging in accordance with legislation.

Disposal method: Any unused material can still be reused at any time as long as it is not mixed with other products. In terms of safety aspects, long periods of storage do not alter the characteristics of the product. If not used, this substance must be disposed of in accordance with current legislation.

Code: Waste from the processing of **Calumite** is not considered hazardous for the application.

Calumite is not considered hazardous under the Basel Convention. Entry: 1200 B

SECTION 14: Transport information.

The substance is not dangerous according to the following transport regulations:

14.1 UN number

Land transport (ADR, RID, CDG Road, CDG Rail) non-dangerous substance according to ADR

River craft (ADN,ADNR) non-hazardous substance according to ADN

Maritime transport (GGVSee) non-hazardous substance according to GGVSee

Air transport (ICAO/IATA) non-dangerous substance according to ICAO/IATA

14.2 United Nations shipping name : n.a

14.3 Transport hazard class : n.a

14.4 Packaging group : n.a

14.5 Danger to the environment : n.a.

14.6 Special precautions for the user : n.a

SECTION 15: Regulatory information

15.1 Regulations and legislation specific to the substance or mixture in terms of safety, health and the environment.

National regulations: e.g.

- Water hazard class: substance not hazardous to water (self-classification)
- Regulation on solvents : not relevant
- Regulation on incidents : not relevant
- Technical instructions Air: not relevant

15.2 Chemical safety assessment.

A chemical safety assessment has been carried out



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SECTION 16: Other information.

16.1 Revisions

Data Created for 1ST version of April 2024

Comments to users:

The information is provided in good faith. Users' attention is also drawn to the possible risks that may arise if the substance is applied for purposes other than those for which it was designed. This safety data sheet in no way exempts the user from knowing and complying with all the regulations applicable to his activity. The user assumes full responsibility for knowing and taking the precautions associated with the use of the substance. References to regulatory provisions are given to assist the user in fulfilling the obligations of persons using a hazardous substance or mixture. All local and international measures and provisions which may apply should be mentioned. Users' attention is drawn to the possible existence of other provisions supplementing these requirements. This list should not be considered exhaustive. It does not exempt the user from ensuring that obligations under texts other than those referred to are not applicable to the possession and use of the substance, for which the user is solely responsible.