



SAFETY DATA SHEET

Prepared in compliance with Annex II of regulation Reach EC n°1907/2006, Regulation EC n°1972/2008 and Regulation EC 453/2010

Date of drawn up: July 2011

Date of latest revision: January 2018

Version: 2

SECTION 1: Identification of the substance and of the company.

1.1 Product identifier

Name of substance:	slag, ferrous metal, blast furnace
Brand name:	Granulated blast furnace slag (GBS)
Trade name:	Calumite®
N° CAS:	65996-69-2
N°EINECS:	266-002-0
Reach status:	UVCB (Unknown or variable composition complex reaction product of biological origin)
Reach number:	01_2119487456_25

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

Raw material for making glass (modified blast furnace slag)

1.3 Detailed specifications of supplier of the material safety data sheet.

Name :	CALUMITE. SA
Address:	zi Esch/Schiffange L-4149 ESCH SUR ALZETTE Grand Duché de LUXEMBOURG
Phone :	+ 352 57 37 57 1
Fax :	+ 352 57 37 60
Email	reach@calumite.lu

1.4 Emergency phone line.

European emergency phone line	112
National Intoxication Prevention and Treatment Center:	+32.70.245 245
Company Emergency phone line	+352.57.37.57.1



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SECTION 2: Hazards identification.

2.1 Classification of the substance or mixture

Classification of the substance: This substance is not classified dangerous in the meaning of the European Dangerous Substances Directive 67/548/EEC and of CLP Regulation 1272/2008/EC.

Effects on human health: Slightly alkaline substance. Risk of formation of irritation dust.

Skin contact: Acute effects: risk of irritations in case of long-term contact.

Eyes contact: Acute effects: risk of irritations

Inhalation: Acute effects: risk of irritations of respiratory tract in case of inhalation of dusts.

Ingestion: Risks of irritations.

Effects on environment: This substance is not classified dangerous in the meaning of the European Dangerous Substances Directive 67/548/EEC and of CLP Regulation 1272/2008/EC.

2.2 Label elements Not concerned

2.3 Other hazards Particulates are capable of irritating the eyes and respiratory organs via mechanical effects.
Granulated blast furnace slag may, due to its angular and sharp-edged particle shape, cause mechanical irritation to the skin.



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SECTION 3: Composition/information on ingredients.

3.1 Substance.

N° EINECS:	266-002-0
Main constituent:	blast furnace slag - N° CAS : 65996-69-2
Impurities:	there are no impurities affecting classification and labeling

3.2 Mixture.

No mixture with another substance.



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SECTION 4: First aid measures.

4.1 Description of first aid measures.

Specific risks:	Alkaline dusts, Risk of formation of irritating dusts.
Eyes contacts:	In the event of contact with the eyes, use a Diphotérine® type neutralizing solution. Wash immediately with plenty of water, by maintaining the eyelids isolated. Seek medical advice.
Inhalation:	In the event of accident by inhalation, move the victim away from the contaminated area, by taking all the necessary precautions, and make him rest. In the event of conscience disorders, put the victim on his side in the safety position while waiting for the medical help. In the event of respiratory disorders, provide respiratory assistance while waiting for the medical help. Seek medical advice.
Skin contact:	Wash off with soap and an abundant quantity of water. Use a Diphotérine® type neutralizing solution. Do not use solvents or diluents. If a skin irritation appears or if the contamination is extensive and extended, make medical advice.
Rescuer Protection:	Wear compulsorily adapted gloves, breathing protection (dusts) and safety glasses.
First Aid after ingestion:	Rinse out mouth and drink large amounts of clean water.

4.2 Most important symptoms and effects, both acute and delayed

See 2.1

4.3 Indication of any immediate medical attention and special treatment needed

See 4.1



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SECTION 6: Accidental release measures.

6.1 Personal precautions, protective equipment and emergency procedures.

Avoid dusts inhalation
Avoid skin, eyes and mucous membranes contacts
Wear dust protection mask and glasses
Wear appropriate gloves.

6.2 Environmental precautions

Do not reject directly into sewer or into the natural medium

6.3 Methods and material for containment and cleaning up

Recover mechanically (eventually via ventilation) while avoiding dust formation (the product can be humidified as a preliminary)
The presence of large quantities of dust can render the ground slippery. Sweep and wash the ground, and recover residues.

6.4 Reference to other sections.

None.



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SECTION 7: Handling and Storage.

7.1 Precautions for safe handling

Avoid dusts formation.

Avoid contact with skin and eyes

Wear compulsorily work clothing, adapted breathing protection, appropriate gloves and safety glasses.

Do not eat and drink during handling

Avoid dust inhalation.

7.2 Conditions for safe storage, including any incompatibilities.

Store the substance in a dry place.

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 uses under consideration, including the use in the glassmaking industry, the slag does not possess any dangerous properties; exposition scenarios have not been prepared.



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SECTION 8: Exposure controls/personal protection.

8.1 Control parameters.

DNEL : the value has not been determined : the substance does not have dangerous properties.

PNEC : the value has not been determined : the substance does not have dangerous properties.

8.2 Exposure controls.

Proceed to atmosphere control.

Respiratory protection:	wear compulsorily respiratory protection mask (in case of dusts formation) EN149 FFP2 filter
Hand protection:	wear compulsorily work gloves adapted to alkaline products. Use only gloves conform to 89/686/EEC
Eyes protection:	wear compulsorily safety glasses
Skin protection:	wear work clothing adapted to alkaline products.
Thermal hazards:	none.
Emergency facilities:	safety showers. Eye clean-up apparatus.
Other information:	wear safety shoes.
Environmental exposure:	do not reject directly into sewer or into the natural medium
Hygiene measures:	avoid contacts with skin and eyes. Shower at the end of the work Wash hands, in particular before meals.



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SECTION 9: Physical and chemical properties.

9.1 Information on basic physical and chemical properties

Appearance:	a solid, coarse grained, sand-colored material
Odour:	odourless
pH:	after mixing with water – slightly alkaline solution
Melting point:	melting range is 1100 – 1400°C
Boiling point:	boiling range is >2000°C
Flash point:	n.a (substance is inorganic)
Flammability:	non-flammable
Explosive properties:	non explosive
Oxidising properties:	no oxidising properties
Vapour pressure:	will not be used
Relative density:	Approx 2,4 – 3 g/cm³ at 20°C
Bulk density:	1.5
Stability in organic solvents:	Not soluble in organic solvents
Water solubility:	very low solubility in water
Self ignition temperature:	non self ignition possible.

9.2 Other information

No other information.



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SECTION 10: Stability and reactivity.

10.1 Reactivity

Not concerned.

10.2 Chemical stability

Product stable in normal conditions of use

10.3 Possibility of hazardous reactions

Emissions of hazardous gasses (H₂S) when the product comes in contact with acids.

10.4 Conditions to be avoided

Not determined

10.5 Incompatible materials

Avoid contact with acids products.

10.6 Hazardous decomposition products.

Emissions of hazardous gasses (H₂S) when the product comes in contact with acids.



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SECTION 11: Toxicological information.

11.1 Information on toxicological effects

Classification of the substance: This substance is not classified dangerous in the meaning of the European Dangerous Substances Directive 67/548/EEC and of CLP Regulation 1272/2008/EC.

Effects on human health: Slightly alkaline substance. Risk of formation of irritation dust.

Skin contact: Acute effects: risk of irritations in case of long-term contact.
Wear work clothing adapted to alkaline products.
Wear compulsorily work gloves adapted to alkaline product.

Eyes contact: Acute effects: risk of irritations
Wear compulsorily safety glasses.

Inhalation: Acute effects: risk of irritations of respiratory tract in case of inhalation of dusts. Wear compulsorily respiratory mask.

Ingestion: Risks of irritations, feeling of burns, abdominal pains.

11.2 Further Information

None



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SECTION 12: Ecological information.

12.1 Toxicity

This substance is not classified dangerous for the environment in the meaning of the European Dangerous Substance Directive 67/548/EEC and of CLP Regulation 1272/2008/EC

12.2 Bioaccumulative potential

n.a.

12.3 Mobility in soil

No evidence for bioaccumulative potential

12.4 Results of PBT and vPvB assesement

n.d.a.

12.5 Other adverse effects

No negative ecological effects are expected according to the present state of knowledge.



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SECTION 13: Disposal considerations.

13.1 Waste treatment methods.

Valorization method: Substance resulting from an industrial process but which is not the end-purpose of this process. This substance is sold as a raw material for glassmakers.

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

Methods of elimination: Any unused material may still be reused at any time if not mixed or contaminated with other products.
In terms of the safety aspects, long periods of storage do not alter the product's characteristics.
In the event of non-use, this substance must be eliminated in conformity with the legislation in force.

Code: Wastes from the processing of slag is not regarded as dangerous pursuant to the Decision 2001/118/EC of the European commission of the 16/01/2001 amending the decision 2000/532/EC concerning the list of waste.
EURAL Code : 10 02 01 (if the residue is classified as waste in the State where it is generated)

Slag is not regarded as dangerous in the Convention of Basle.

Heading; B 1200



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SECTION 14: Transport information.

The substance is not hazardous according the following transport regulations:

14.1 UN number

Land transportation (ADR, RID)

Not a hazardous good in acc. with ADR.

Internal water transportation (ADNR)

Not a hazardous good in acc. with ADNR.

Transportation by sea (GGVSee)

Not a hazardous good in acc. with GGVSee

Transportation by air (CAO/IATA)

Not a hazardous good in acc. with IACO/IATA.

Pictogram

No pictogram.

14.2 UN proper shipping name

n.a.

14.3 Transport hazard class

n.a.

14.4 Packaging group

n.a.

14.5 Environmental hazards,

n.a.

14.6 Special precautions for user

n.a.

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

n.a.

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SECTION 15: Regulation information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

EU regulations

None

National regulations e.g.

- | | |
|---|---|
| - Water Hazard Class | Non-water-hazardous substance – (self-assessment) |
| - Solvents Regulations (31 st BImSchV) | n.a. |
| - Hazardous Incident (Reporting) Ordinance (12 th BImSchV) | n.a. |
| - German Clean Air Act (TA-Luft) | n.a. |

Other relevant legislation

DGUV Regulation 100-500- Operation of work equipment (previously: BGR 500)

Granulated blast furnace slag meets requirements 3.2 maximum hazardous-substance contents in blasting agents in section 2.24

15.2 Chemical safety assessment.

No chemical safety assessment is necessary for this substance.



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SECTION 16: Other information.

16.1 Revisions

Data changed vis-a-vis the previous version 1 dated July 2011.

16.2 Wording of H and EUH statements in acc. with CLP Ordinance (EC 1272/2006)

-

16.3 Wording of R statements

-

16.4 Notes for training

None

16.5 Recommended restrictions on use

None

16.6 References and sources

Statement of references and data sources

Methods used in acc. with Article 9 of Ordinance (EC) CSR: Chemical Safety Report, "Ferrous Slags" N° 1272/2008 for evaluation of information for the purpose of classification.



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Comments to Users:

This sheet is in compliance with the article 31 of the REACH regulation n°1907-2006

This sheet supplements but does not replace instruction manuals. The information contained herein is given to the best of our knowledge concerning the Calumite® indicated on the date on which it was updated. Information is provided in good faith.

Attention of users is also drawn to possible risks which may arise if the substance is applied for purposes other than those for which it has been designed.

This safety data sheet does not in any way exempt the user from knowing and complying with all regulatory texts applying to his or her activity. The user takes full responsibility for knowing and taking the precautions related to the use of the substance. References to regulatory provisions are given to assist the user in fulfilling the obligations incumbent on persons using a substance or a dangerous mixture.

All local and international measures and provisions which could apply should be referred to.

Attention of users is drawn to the possible existence of other provisions supplementing these rules.

This list is not to be taken as comprehensive. It does not exempt the user from ensuring that obligations under texts other than those to which reference is made do not apply to the detention and use of the substance, for which the user alone is responsible.