



SAFETY DATA SHEET ALUMINIUM SILICATE

Issue date: 09/01/2020

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 PRODUCT IDENTIFIER

Product name	Aluminium silicate
CE number	270-708-4
CE name	Coal slag (ash slag from steam generators in coal basins)
CAS number	68476-96-0
REACH registration number	01-2119487456-24
LoW (List of waste)	10 01 01: smelting granulate (coal)
LAGA (code of waste)	31307

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

GES 1	Abrasive
GES 2	Prime ingredient of mixture for manufacture of clinker
GES 3	Ingredient for insulation in roofing
GES 4	Formulation of cement, hydraulic binder, concrete...
Uses advised against	Not known

1.3 DETAILS OF MANUFACTURER / SUPPLIER OF SAFETY DATA SHEET

Company name	ABRASIVOS MENDIOLA, S.L. / ASUA BLAST, S.L
Address	Ctra. Bilbao-Plencia, N°19 48950. Asua-Erandio, Vizcaya (España)
Telephone number	34 - 944711250
Fax	34 - 944533952
Email address	mendiola1@abrasivosmendiola.com

SECTION 2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF SUBSTANCE

Classification according to CLP regulation (CE 1272/2008)	This product has not been classified as dangerous
Classification according to regulation 67/548/CEE	This product has not been classified as dangerous

2.2 LABEL ELEMENTS

Classification according to regul. 1272/2008 (CLP/GHS)	This product is not labelled
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2.3 OTHER HAZARDS

Result of PBT/vPvB assessment	Not applicable
Other hazards	None

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SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

Silica (SiO ₂)	45-56%
Iron (Fe ₂ O ₃)	7-11%
Aluminium (Al ₂ O ₃)	22-31%
Calcium (CaO)	3-8%
Magnesium (MgO)	1-3%
Potassium (K ₂ O)	0,4-2%

The iron content refers to elemental composition. The iron is present as iron silicate in amorphous glass.

The proportion of free silicic acid in the abrasive meets the requirements of non-silicogenic abrasives in accordance with TRGA 50

Mohs Hardness Scale	>6
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SECTION 4. FIRST AID MEASURES

General	No adverse effects are expected during the normal use of the product, as long as the following recommendations are applied.
Inhalation	Not applicable
Ingestion	Wash out mouth with water. Do not induce vomiting. Get medical attention.
Skin contact	Product is not irritant or skin sensitizer. Wash with water.
Eye contact	Product is not eye irritant. Do not rub eyes. Wash eyes with plenty of water, making sure inner eyelids are also washed. Get medical attention if discomfort continues.

4.1 Most important symptoms and effects, both acute and delayed

	No specific symptoms or effects have been reported.
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4.2 Indication of any immediate medical attention and special treatment needed

	Not applicable
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SECTION 5. FIRE-FIGHTING MEASURES

5.1 Fire-fighting measures

Suitable extinguishing media	Product is not flammable. Use an extinguishing agent appropriate to the surrounding materials.
Unsuitable extinguishing media	Not known.

5.2 Special hazards arising from the product

	None
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5.3 Recommendations for fire-fighting personnel

Product itself does not burn.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use suitable personal protective equipment.

6.2 Environmental precautions

Collect spilt material.

6.3 Methods and material for containment and clean up

For contention | All contentions for dry substances are appropriate.

For clean up and spill | Sweep up and confine material for recycling or disposal.

6.4 Reference to other sections

None

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures | No specific provisions if product is used appropriately.

Advice for safe handling | Use personal protective equipment.

Measures to prevent fire | Product itself does not burn. No measures are required.

Measures required to protect the environment | No specific provisions.

General advice on hygiene at work | Do not eat, drink or smoke in working areas. Wash hands after use.

Conditions for safe storage including incompatibilities

Technical measures and storage conditions | Protect from dampness and solar rays in packaged product.



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Technical requirements for warehouses and containers	None
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Advice for joint storage	Storage class is non-combustible solids.
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SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational exposure limits	No exposure limits are known.
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8.1.2 Biological limits values	None
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8.1.3 Suitable engineering controls	Local exhaust ventilation for use indoors.
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8.1.4 Additional exposure limits in conditions of use: DNEL/DMEL and PNEC values	Not applicable
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8.2 Exposure controls

Respiratory protection	Dust mask
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Hand protection	Gloves
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Eye protection	Safety eyewear
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Skin protection	Wear appropriate protective clothing..
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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Brown and black
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Odour	Not applicable
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Odour threshold	Not applicable
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pH	6.5
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Melting point/freezing point	1260°C - not applicable
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Initial boiling point and range	Not applicable
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Flash point	Not applicable
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Evaporation rate	Not applicable
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Flammability	Not flammable
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Upper / lower flammability or explosive limits	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	2,4g/cm ³
Solubility (es)	Poorly soluble (<1g/L)
Partition coefficient: n-octane/water	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Viscosity	Not applicable
Explosive properties	Not explosive
Oxidising properties	Not oxidising

9.2 Additional information : None

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

Under normal conditions of use, storage and transport, the substance is stable.

10.2 Chemical stability

Under normal conditions of use, storage and transport, the substance is stable and is not reactive.

10.3 Possibility of hazardous reactions

Not known

10.4 Conditions to be avoided

Contact with incompatible materials. Contact with acids may produce hydrogen (flammable gas).

10.5 Incompatible materials

Strong oxidising agents. Strong acids.

10.6 Hazardous decomposition products



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	Melting at high temperatures may generate metal oxides vapours.
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SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

	NO CARCINOGEN INGREDIENT NO FREE CRYSTALLINE SILICA NO RADIOACTIVE PRODUCT
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SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity / Water toxicity

	Not applicable / Not toxic according to DIN 38414S4
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12.2 Persistence and degradability

	Not applicable
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12.3 Bioaccumulative potential

	Not applicable
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12.4 Mobility in soil

	Not applicable
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12.5 Results of PBT and vPvB assessment

	This product does not meet the criteria to be classified as PBT or vPvB
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12.6 Other adverse effects

	This product must not be labelled as hazardous to the environment, according to the European classification criteria.
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SECTION 13. DISPOSAL CONSIDERATIONS

	Slag can be disposed of in inert dumps class 0 (according to German regulations) Code of waste 31307 (LAGA) List of Waste (LoW): 100101 (smelting granulate)
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SECTION 14. TRANSPORT INFORMATION

	Not classified as hazardous in terms of shipping regulations.
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14.1 UN number

None

14.2 UN proper shipping name

Not applicable



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14.3 Transport hazard class	Not applicable
14.4 Packaging group	Not applicable
14.5 Environmental hazards	None
14.6 Special precautions for users	None
14.7 Transport in bulk according to Anex ii of Marpol 73/78 agreement and the IBC code	Not applicable

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations and legislation are specific for the product	EU regulations: This substance is not classified as hazardous according to the EC Regulation number EU-GHS/CLP 1272/2008. This substance is not classified as hazardous according to 67/548/CEE
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SECTION 16. OTHER INFORMATION

16.1 Information on changes	
Issue date	09/01/2020
16.2 Notes	

The information contained in this document is believed to be true and accurate and has been collected from reliable sources.

This document is intended as a guide for the appropriate handling of the material by a properly trained person.

It is the user's responsibility to determine that conditions are right for a safe use of this product.

Abrasivos Mendiola, S.L /Asua Blast, S.L accepts no liability for any harm a person using this product may suffer as a result of the misuse of the information contained in this document.

All data are indicative values which may present specific tolerances of the quarry or manufacture.

The persons using this product must comply with the applicable laws and regulations which are in force and especially those related to safety and health, storage and transport of materials.