



SAFETY DATA SHEET IRON SILICATE

Revision Date: 08/01/2020

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIX AND ENTERPRISE.

1.1 IDENTIFICATION OF THE PRODUCT.

Name	Iron Silicate (Copper Slag) (M-5,M-8, M-25, M-60)
EC no.	266-968-3
EC name	Slags from Copper processing/smelting
CAS no.	67711-92-6
REACH register no.	01-2119513228-45-0001/3

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

GES 1	Abrasive
GES 2	Major component of mix for clinker production
GES 3	Component for roof insulating materials.
GES 4	Formulation of cement, hydraulic binder, concrete...

Uses advised against	Unknown
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1.3 DETAILS OF THE SUPPLIER OF SAFETY DATA SHEET

Name of the enterprise	ABRASIVOS MENDIOLA, S.L.
Address	Ctra. Bilbao-Plencia, N°19 48950. Asua-Erandio, Vizcaya (España)
Phone no.	34 - 944711250
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Email address	mendiola1@abrasivosmendiola.com

SECTION 2. IDENTIFICACION OF HAZARDS

2.1 CLASSIFICATION OF THE SUBSTANCE

Classification in accordance with the CLP regulation (EC 1272/2008)	This product is not classified as hazardous
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Classification in accordance with the 67/548/EEC regulation	This product is not classified as hazardous
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2.2 COMPONENTS OF THE LABEL

Classification in accordance with the 1272/2008	This product is not labelled
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ABRASIVOS MENDIOLA,S.L.



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(CLP/GHS) regulation	
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2.3 OTHER HAZARDS

PBT/vPvB valuation result	Non applicable
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Other hazards	None
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SECCION 3. COMPOSITION / INFORMATION ABOUT COMPONENTS

3.1 SUBSTANCES

Silicate (SiO ₂)	32-20%
Iron (Fe ₂ O ₃)	38-25%
Aluminium (Al ₂ O ₃)	14-6%
Calcium (CaO)	8-3%
Zinc (ZnO)	10-5%
Copper (CuO)	0,9-0,3%

The contents of iron refers to the basic composition. Iron is present as iron silicate in the amorphous glass.

The content of SiO₂ (silicate) is not in crystalline free state. The respirable particles do not have fiber form. NIOSH recommends the use of respiratory protection in all jet cleaning practices

Hardness Mohs scale	7
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SECCION 4. FIRST AID

General	No detrimental effects are expected during normal use of the product, if the following recommendations are applied.
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Inhalation	Non applicable
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Ingestion	Rinse out mouth. Drink water. Do not induce vomiting. Seek medical attention.
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Skin contact	It is not a skin irritant or skin sensitizer.
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Eye contact	The product is not eye irritant. Do not rub your eyes. Flush them with plenty of water, being careful to rinse under your eyelids. Contact a doctor if discomfort continues.
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4.1 MOST IMPORTANT SYMPTOMS AND EFFECTS BOTH ACUTE AND DELAYED

	No relevant information available or reported
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4.2 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

	n/a
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SECCION 5. FIRE FIGHTING MEASURES.

5.1 Fire fighting measures

Suitable extinguishing media	Non flammable product. Select any appropriate method to extinguish surrounding fire.
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Unsuitable extinguishing media	Unknown.
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5.2 Specific dangers of the product.

	None
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5.3 Recommendations for fire-fighting operators.

	The product does not burn
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SECCION 6. IN CASE OF ACCIDENTAL DISPERSION

6.1 Personal precautions protective equipment and emergency procedures.

	Use appropriate protective equipment.
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6.2 Environvental precautions

	Collect spilled material
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6.3 Methods and material for containment and cleaning up

For containment	All containments for dry substances are suitable.
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For cleaning and spilling	Sweep and confine for recovering or elimination
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6.4 Reference to other section.

	None
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SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Protection measures	No specific provisions exist if the product is handled properly
Advice on safe handling	Use personal protection equipment.
Measures to prevent accidental fires	The product does not burn. No measures are required
Environmental precautions	No specific provisions exist.
General advice for hygiene at work	Do not eat, drink or smoke in working areas. Wash your hands after use.

Conditions for safe storage , including any incompatibilities

Technical measures and conditions of storage.	Protect packaged product from sunbeams and humidity
Requirements for storage rooms and vessels	None
Advice for joint storage	The kind for non flammable solids

SECTION 8. INDIVIDUAL EXPOSURE/PROTECTION CONTROLS

8.1 Control parameters

8.1.1 Occupational exposure limits	No occupational limits are known.
8.1.2 Biological limit values	None
8.1.3 Appropriate engineering controls	Localized extraction ventilation for indoors use.



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8.1.4 Additional exposure limits in DNEL/DMEL use conditions and PNEC values	n/a
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8.2 Exposure controls

Respiratory protection	Anti-dust mask
Hand protection	Gloves
Eye protection	Safety goggles
Skin protection	Use suitable protection clothing

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information about basic physical and chemical properties

Aspect	Black solid
Smell	n/a
Odour threshold	n/a
pH	6,5
Melting/freezing point	1027-1341°C - n/a
Initial boiling point and boiling range	n/a
Flashpoint	n/a
Rate of evaporation	n/a
Flammability	Non flammable
Superior/inferior flammability or explosiveness limits	n/a
Steam pressure	n/a
Steam density	n/a
Relative density	3.11-4.2g/cm3
Solubility/ies	Slightly soluble
Segregation coefficient n-octanol/water	n/a



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Auto ignition temperature	n/a
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Descomposition temperature	n/a
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Viscosity	n/a
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Explosive properties	Non explosive
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Oxidising properties	Non oxidizing
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9.2 Additional information:	no information.
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SECCION 10. Stability and reactivity

10.1 Reactivity

	The substance is stable and non reactive in normal use, storage and transport conditions.
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10.2 Chemical stability

	The substance is stable and non reactive in normal use, storage and transport conditions.
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10.3 Possibility of dangerous reactions.

	Unknown
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10.4 Conditions to avoid

	Contact with incompatible materials. Contact with acids may generate hydrogen (flammable gas)
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10.5 Incompatible materials

	Strong oxydizing agents. Strong acids.
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10.6 Hazardous descomposition products

	High temperature fusion may generate metal oxide vapours.
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SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Información about toxicological effects

	Unknown
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SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

n/a

12.2 Persistence and degradability

n/a

12.3 Potential for bioaccumulation

n/a

12.4 Mobility in soil

n/a

12.5 Results of PBT and vPvB assessment

This product does not meet the criteria to be classified as PBT or vPvB

12.6 Other adverse effects

Meeting European classification criteria, this product must not be labelled as hazardous for the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations.

SECTION 14. TRANSPORT INFORMATION

It is not classified as hazardous in terms of transport regulations.

14.1 UN no.

None.

14.2 UN official designation of transport

n/a

14.3 Type of hazard for transport

n/a

14.4 Packaging group

n/a

14.5 Hazards for the

None



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environment	
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14.6 Special precautions for users	None
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14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code	n/a
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SECCION 15. REGULATORY INFORMATION

15.1 Specific health, safety and environment law.	EU regulations: This substance is not classified as hazardous in accordance with EU-GHS/CLP 1272/2008 and 67/548/CEE regulations.
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SECCION 16. OTHER INFORMATION

16.1 Indication on changes	
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Revisión date	08/01/2020
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16.2 Footnote	
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This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

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