

GritSablare%

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Professional Blasting Materials



Material: COPPER SLAG

MATERIA L SAFETY DATA SHEET (MSDS)

Section I. Product Identification

Material chemical name:	Copper Slag		Child and the child	3115 181 1	54 th
Commercial names or synonyms	Copper Slag, Iror	n Silicate Abrasives, Ir	on Silicate Gri	t 🔍	
Product description:	Iron Silicate	je sa je	S44.44.	LE, State of the s	Str.
Main uses:		rasive, Concrete fille uction material, Grou		eed, Road surf	ace
Distributor	GritSablare	Extra Carrier	Salar Sa	SPIS STATES	- Child
	Headquarter:	10 Eliza Zamfirescu	Leonida Stree	et, Bucharest	
	Storage & Logistic:	Constanța Seaport, Constanța, Romani		NA Platform,	O CAPE
	Phone:	(+4) 0722.279.481			
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The substance is not classified as hazardous under the CLP Regulation (1272/2008/EC), is not persistent bio-accumulative and toxic (PBT) or very persistent and very bio-accumulative (vPvB) as defined in Annex XIII of the REACH Regulation, and is not included in the ECHA candidate list of substances of very high concern. Therefore provision of a Safety Data Sheet (SDS) is not mandatory. This Substance Information Sheet (SIS) is a voluntary presentation of certain information that may assist the user in the handling of the substance.



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Section II.	Com	nosition	and in	formation	oningre	•dient
occurry III.	50111	P05161641	and m	i Ostilia aloli	O Syning C	· CI LINE

Composition:	SiO ₂ :	33 -	38% (free silica < 0,	1%)
The filter for the	FeO:		51 - 58%	
S. S	Al ₂ O ₃ :	W. California	4 - 8%	Chil 18
	CaO:		2 - 10%	
	K₂O:	The state of the s	0 - 2%	J.Z.
	MgO		1 - 3%	
	@s: _		0,6 - 1,3%	
	Other:		traces	
No. CAS	67711-92-6			The state of
No EINECS:	266-968-3			

Section III. Hazards identification

Regulation (EC) No. 1272/2008	
Regulation (EC) No. 1276/2000	
(which replaces Directive	
67/548/EC(DSD):	

Not classified. Copper slag does not meet the criteria for classification in accordance with the regulations EC1272/2008. No special conditions are therefore needed. Risk management measures due to the potential occurrence of hazardous dusts during use as an abrasive may be needed.

Labelling according to Regulation (EC) No 1272/2008 (which replaces Directive 67/548/EC(DSD)

None,

Other hazards:

The substance does not meet the criteria for a PBT or vPvB substance. Use of this material may generate dust so risk management measures may be needed.

Section IV. First-aid measures

Description of First Aid Measures:

Inhalation:	Remove to fresh air. Get medical attention if symptoms occur.
Skin:	Substance is not a skin irritant and not a skin sensitizer. Wash with water and soap. Remove contaminated clothing and footwear, Get medical advice if symptoms occur.
Eye:	Substance is not an eye irritant. Use general measures if eye irritations occur. Do not rub eyes. Immediately wash with plenty of water. Check for and remove any contact lenses. If irritation persists, get medical attention.
Advice to physician:	No specific advice. Treat according to symptoms present.
Most important symptoms and effects, both acute and delayed.	The product may cause temporary mechanical irritation to the eyes, nose, throat and lungs.
Indication of any immediate medical attention and special treatment.	Notes for the doctor. Treat symptomatically.



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Section v.	Fire-tighting mo	easures	- dif	3	Call Span	COLO 2007
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Extinguishing	; media: Sp.	· \$31		tible. Use an extin ding materials.	guishing age	nt Spanner
Special hazar substance or	ds arising from the mixture:	Hazardous co	ombustion pro	ducts: None.	O CENTRAL	Och Sa
Advice for fire	e-fighters	Wear self-cor	ntained breathi	ing apparatus and	protective cl	othing.
St. St. St.	R. C.	E PARTE OF THE PROPERTY OF THE PARTE OF THE	CHE SHIPE CHE	A P. C.	Children Control of the Control of t	Child the State of
Section VI.	Accidental rele	ase measures				

Personal precautions, protective equipment and emergency	Ensure adequate ventilation. Avoid breathing dust. Use appropriate personal protective equipment.
procedures:	
Environmental precautions:	Make sure spills can be contained. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.
Methods and material for containment and clean-up	Ventilate the area thoroughly. Vacuum or sweep up material and place in a suitable container for re-cycling or disposal.

Handling and storage **Section VII.**

Precautions for safe handling:	Copper slag is not classified and no p for safe handling. Prevent formation ventilated areas. Wear personal prot face before breaks and after work.	of dust. Use only in well
Conditions for safe storage including any incompatibilities:	Keep dry. No other special requirem	ents. As the state of the state
Specific end uses	Abrasive blast cleaning may fracture Ventilate work area in vicinity of ope	

Exposure controls / Personal protection Section VIII.

Exposure controls:	Risk management measures aimed at the protection of human health are to be considered in cases of inhalation of powder or dusts during use. Process enclosures, local exhaust ventilation or other engineering controls should be employed to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Hand protection!	Wear suitable gloves. Where necessary, gauntlets should be worn to protect against abrasive ricochet.
Respiratory protection:	Use properly fitted respiratory protection, complying with an approved standard, appropriate for the known or anticipated exposure levels and the hazards of the product. Blasters should wear an air-fed
A CHARLES OF THE CONTROL OF THE CONT	blasting helmet complying with approved standards, to afford the correct level of respiratory and eye/face protection.



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Eye/face protection:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to dusts. If operating conditions cause high dust concentrations wear dust goggles.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practices. Wash hands, forearms and face thoroughly before eating or smoking and at the end of the working period. Routinely wash work clothing and protective equipment to remove contaminants.
Environmental exposure controls:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of the environmental protection legislation.
Personal protective equipment;	Wear suitable protective clothing.

Section IX. Physical and chemical properties

Appearance:	Solid, angular particles. Colour: Black
Odour:	Odourless a a a a a a a a a a a a a a a a a a
PpH A Telegraphy A	Not applicable
Melting point	1027-1341°C
Flash Point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Non-flammable de la
or explosive limits	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable 4 4 4 4
Relative Density (ref water at 20°C)	3.11 – 4.2
To Solubility To the State of t	Poorly soluble ¹
Decomposition temperature	Decomposition and/or melting starts at 1059°C
Viscosity	Not applicable
Explosive properties &	Non explosive
Oxidising properties	Non-oxidising

 1 Solubilisation and agitation for 14 days at pH 6.3-7.6 resulted in dissolved Cu, Ni, Pb < 0.2 mg/l. Transformation / dissolution (OECD, 2001) is more suitable for metals and sparingly soluble metal compounds (see IUCLID Section 5.6). The outcomes of the transformation / dissolution tests were used for aquatic classification.

Section X. Stability and reactivity

Reactivity::	Not applicable.	O Carlot Ball	October Control	(C)
Chemical stability:	Under normal cond	itions of use and	storage, the produ	ct is stable.
Possibility of hazardous reaction	s: No dangerous react	tions known.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	J. Take St. Take



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Conditions to avoid:	Avoid dust formation	tion and contact with acids		5 Stall A.	18 18 18 18 18 18 18 18 18 18 18 18 18 1
Incompatible materials:	Strong acids.	07	07	0	9
Hazardous decomposition products:	The substance does bonded into the gla mineral phases. The limited.	ss/crystal str	uctures of the	e silicate and	l other

Toxicological information Section XI.

Acute toxicity:	
• **Oral: ************************************	Not classified as hazardous for acute toxicity by oral route.
• Inhalation:	Not classified as hazardous for acute toxicity by inhalation route.
• Dermal:	Not classified as hazardous for acute toxicity by dermal route.
Irritation/Corrosion:	
Skin/Eye	Not irritating.
Sensitizer	
• Skin/Respiratory:	Not sensitizing.
Mutagenicity:	Negative.
Carcinogenicity:	Negative.
Reproductive Toxicity:	Negative.
STOT (repeated exposure):	Not classified by oral or inhalation route.

Ecological information Section XII.

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Environmental bioavailability	The uptake of copper slag by living organisms is related to the degree to which the metal mineral phases in the slag react with water/biological fluids and release soluble, potentially bio-available ionic and other metal bearing species. Other metals lead, nickel, zinc, arsenic and cadmium were below the detection limits.
Acute fresh water toxicity:	Not classified.
Chronic fresh water toxicity and PNEC derivation:	Not classified.
Bio-accumulative potential	Not applicable
Persistence and degradability	Not degraded in classic terms but geochemical cycling leads to removal of the metals from the system.
Results of PBT and vPvB assessment	The PBT and vPvB criteria of Annex XIII to the Regulation do not apply to inorganic substances, such as copper slags. Copper slags are not PBT or vPvB.



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Section XIII. Disposal consideration

The spent abrasive must be disposed of in accordance with national legislation.

The material is non-hazardous and, as supplied, may be disposed of under European Waste Catalogue (EWC 2002) entry 10 06 01 (slags from primary and secondary production of copper) a non-hazardous category. However, once used as a shot blast media, the material must be disposed of under 12 01 16 (waste blasting material containing dangerous substances) or 12 01 17 (waste blasting material other than those mentioned in 12 01 16). The waste producer must determine if hazardous substances in the coating being removed are likely to render the waste hazardous. Please note that a metal ion analysis, in isolation, may lead to an incorrect classification.

Section XIV. Transport information

Copper slag is regulated as non-hazardous.

Section XV. Regulatory information

This product is classified as non-hazardous.

Section XVI. Other information

Rey literature references and sources of data:

Workplace Exposure Limits -2005. HSE EH40/2005

Workplace Exposure Limits -Supplement 2007. HSE EH40/2005

EC Commission Directive 2001/58/EC

EC Commission Regulation 1907/2006 and amendment EC 987/2008

Disclaimer

GRITSABLARE has exercised reasonable care in the preparation of this information; however, the company assumes no responsibility as to the accuracy or suitability of such information for application to the intended purposes or for the consequence of its use. Moreover, since regulatory standards and guideline recommendations change from time to time, there is no assurance that hazard classifications, exposure limits and other regulatory requirements reflected in this MSDS will be current at the time the MSDS is used.