

Tel: +4 0722 279 481 +4 0725 984 004

Email: Web

Email: comercialgritsablare@gmail.com

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Professional Blasting Materials



Material: OLIVINE

MATERIAL SAFETY DATA SHEET

Section I. Identification of the Substance and of the Company

Product Name	Olivine	
Distributor:	GritSablare	
	Headquarter:	10 Eliza Zamfirescu Leonida Street, Bucharest
	Storage & Logistic:	Constanța Seaport, Gate 2, SORENA Platform, Constanța, Romania
A CONTRACT OF THE CONTRACT OF	Phone:	(+4) 0722.279.481
	Email:	comercialgritsablare@gmail.com
	Website:	www.gritsablare.ro

Section II. Hazard Ratings

	Spec Spec	D. Carrows	Christ I	Rating*	Grand Control of the	Chits.	E Commence of the Commence of	Christian Christ	G. Critical Control of the Control o
	Flammability	the state of the state of	ALE TRANS			ALLE THE	ALTE TO THE	18 18 18 18 18 18 18 18 18 18 18 18 18 1	
	Toxicity			1,613					
	Body Contac	t	Q _{CP}	0					
100	Reactivity	the see that	See State			NEE THE THE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	St. St. Att.	
	Chronic		GHE P	0		GIET HE	geli St	-3 ¹ 1, 1	G ^{ilSP}

^{*} Ratings: Minim/Nil = 0, Low = 1 Moderate = 2, High = 3, Extreme = 4

STATEMENT OF HAZARDOUS NATURE

NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS

According to the criteria of NOHSC, and the ADG code

et .	10-	/ U_	10-	
POISONS	SCHEDU	LE X		None



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	 / information o	
Section III.		

Name Name	Of Children	Olivine mineral	Grand Control	O CHANGE	Chr.	G. Carrier	Of Children
CAS RN (%)	April 18 de la companya del companya del companya de la companya d	1317-71-1 (>99%	6) 🖟	A STATE OF THE STA	Andrew The The State of the Sta	ALE THE	

Section IV. First Aid Measures

Swallowed:	Overexposure is unlikely in this form and quantity.
	 Immediately give a glass of water.
The transfer of the transfer o	 First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.
Eye	If this product comes in contact with the eyes:
The state of the s	 Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting
	the upper and lower lids. If pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be
	undertaken by skilled personnel.
Skin:	If skin or hair contact occurs:
	 Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhaled:	 If dust is inhaled, remove from contaminated area. Encourage patient to blow nose to ensure clear passage of breathing.
	If irritation or discomfort persists seek medical attention.
Notes to physician:	Treat symptomatically.

Fire Fighting Measures Section V.

Extinguishing Media:	Non combustible. Use extinguishing media suitable for surrounding area. There is no restriction on the type of extinguisher which may be
	Sused.
Fire fighting:	Use fire fighting procedures suitable for surrounding area.
	Product is not combustible. No special fire fighting procedures required.
Fire / explosion hazard:	Non combustible.
The state of the s	Not considered a significant fire risk, however containers may
<u> </u>	E The burn. The second of the
Fireincompatibility	No known incompatibility with normal range of industrial materials.
Hazchem:	None & & & & & & & & & & & & & & & & & & &



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Section VI. Accidental Release Measures

EMER	GENCY	' PROCEDURES

Minor spills

- Clean up all spills immediately.
- Use dry clean up procedures and avoid generating dust.
- If exposure to workplace dust is not controlled, respiratory protection is required; wear SAA approved dust respirator.
- Vacuum up or sweep up.
- Place in suitable containers for disposal.

Major spills

Minor hazard.

- Clear area of personnel and move upwind.
- If inhalation risk of exposure exists, wear SAA approved dust respirator.
- Collect recoverable product into labelled containers for recycling.

Safe storage with other classified chemicals



- x Must not be stored together
- o May be stored together with specific preventions
- May be stored together

Section VII. Handling and Storage

Procedures for handling	Avoid generating and breathing dust.
	 Limit all unnecessary personal contact. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. When handling DO NOT eat, drink or smoke. Always wash hands with soap and water after handling. Avoid physical damage to containers. Use good occupational work practice. Observe manufacturer's storing and handling recommendations.
Suitable container	Multi ply paper bag with sealed plastic liner or heavy gauge plastic bag. NOTĂ: Bags should be stacked, blocked, interlocked, and limited in
	height so that they are stable and secure against sliding or collapse. Check that all containers are clearly labelled and free from leaks. Packing as recommended by manufacturer.
Storage incompatibility:	Keep dry
Storage requirements:	 Keep dry. Store under cover. Protect containers against physical damage. Observe manufacturer's storing and handling recommendations.

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Section VIII. Exposure controls / Personal Protection

EXPOSURE CONTROLS:

2//	27/	100	100	1.00	2.7	20%	
Source	Material	TWA TW ppm mg/	- B	STEL mg/m³	Peak ppm	Peak mg/m³	TWA F/CC
European Exposure Standards	Olivine mineral (Inspirable dust not specified)	10		S CARE THE STATE OF THE STATE O	Chillian Art.	The state of the s	
on our record ur	aterials had no OELs nder the following cch (CW) numbers	Olivine: Olivine mi		o data availa o data availa			-1
Emergency expo	sure limits	Not available	Refer to indi	vidual cons	tituents.	Sal Sal Sal	Titte (III)
Ingredient data	olivine mineral:	Not available				Ø -	0

PERSONAL PROTECTION







- Safety glasses with side shields; or as required,
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59]

Hands / Feet:		P'	VC gloves.					
Other:	St. St.	Alley The Age,	Overalls.	ARE STATE	ARE TRANS	ALE TRANS	ARE THE	at the
Sign of		ggil ⁵	Eyewash ı	unit.	CHE ST	GH ^{SS}		

RESPIRATOR:

Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air
No.	See State See	Call the Cal	Respirator
10 x ES	P1 Air-line*) ⁷ -	PAPR-P1
50 x ES 🗽	Air-line**	P2 ty	PAPR-P2
100 x ES	The - the the the the	P3	
		Air-line*	
100+ x ES	- Day	Air-line**	PAPR-P3
* Negative pressure der	mand		

Negative pressure demand

^{**} Continuous flow



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- The local concentration of material, quantity and conditions of use determine the type of personal protective equipment required.
- For further information consult site specific CHEMWATCH data (if available), or your Occupational Health and Safety Advisor.
- Protection Factor Half-Face Respirator Full-Face Respirator Powered Air Respirator.

ENGINEERING CONTROLS

Use in a well-ventilated area:

- Local exhaust ventilation is required where solids are handled as powders or crystals; even when
 particulates are relatively large, a certain proportion will be powered by mutual friction.
- Exhaust ventilation should be designed to prevent accumulation and recirculation of particulates in the workplace.
- If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered. Such protection might consist of::
 - o Particle dust respirators, if necessary, combined with an absorption cartridge;
 - Filter respirators with absorption cartridge or canister of the right type;
 - o Fresh-air hoods or masks.
- Build-up of electrostatic charge on the dust particle, may be prevented by bonding and grounding.
- Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as explosion venting.

Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to efficiently remove the contaminant.

Type of Contaminant: Direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion). Grinding, abrasive blasting, tumbling, high speed wheel 2.5-10 m/s (500-2000 f/min.)

Grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range
1. Room air currents minimal or favourable to	1. Disturbing room air currents
2. contaminants of low toxicity or of nuisance value	2. Contaminants of high toxicity
3. Intermittent, low production.	3. High production, heavy use
4. Large hood or large air mass in motion	4. Small hood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 4-10 m/s (800-2000 f/min) for extraction of crusher dusts generated 2 metres distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used..



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Section IX. Physical and chemical properties

APPEARANCE:

Grey/green odourless solid; insoluble in water. Highly refractory with very high melting point. Highly basic igneous rock with no free silica. Olivine is a group name covering a family of solid solutions of iron and magnesium silicates of indefinite composition. High iron content gives black colour; low iron gives green colour.

PHYSICAL PROPERTIES:	The first of the first of the first
Description	Solid St.
	Does not mix with water
The E The E The E	Sinks in water
Shape particle	Angular
Density S	3,2 g/cm ³
Hardness	6,5 – 7 Mohs scale
Melting point (°C)	Approx. 1780 °C
Initial sintering (°C)	Approx. 1450 °C
PH TE	7,5 - 8
Molecular Weight	Not available
Solubility in water (g/L)	Immiscible 0 0 0 0
ာ့ pH (1% solution)	Not available
Volatile Component (%vol)	Nil at the state of the state o
Relative Vapour Density (air=1)	Not available
Lower Explosive Limit (%)	Not available
Auto ignition Temp (°C)	Not available
Boiling Range (%)	>2000
Specific Gravity (water=1)	3,2 - 3,3
Vapour Pressure (kPa)	Nil @ 38C %
Evaporation Rate	Non-volatile
Flash Point (°C)	Non Flammable
Upper Explosive Limit (%)	Not available
Decomposition Temp (%)	Not available
Viscosity:	Not available

Section X. Chemical Stability and Reactivity Information

Conditions	ontributing to		Product is	considered	stable and l	azardous po	lymerisation	will not
instability	ite. Har.		occur.			Jake Walter		
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Section XI. Toxicological Information

POTENTIAL HEALTH EFFECTS	
ACUTE HEALTH EFFECTS	
Swallowed 3	Considered an unlikely route of entry in commercial/industrial
	environments.
	 Considered to be non toxic.
	 Not normally a hazard due to the physical form of product. The
	material is a physical irritant to the gastrointestinal tract and may
	be harmful if swallowed.
Eye The The The The The The The The The Th	The dust is abrasive and discomforting to the eyes.
Skin 94	The dust is abrasive and may be discomforting to the skin.
Inhaled	Particulate/dust is highly discomforting to the upper respiratory
	tract.

CHRONIC HEALTH EFFECTS

- Principal routes of exposure are usually by inhalation of generated dust and eye contact, skin contact with the material.
- As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.

TOXICITY AND IRRITATION

- Not available. Refer to individual constituents.
- unless otherwise specified data extracted from RTECS Register of Toxic Effects of Chemical Substances

OLIVINE MINERAL

No data of toxicological significance identified in literature search.

Section XII. Ecological Information

Ecological information:	No.	o data for Olivine.	the the tensor	THE THE	A BI ARE
Ecological IIIIOIIII agoni.	C7/	Jagata for Onvisio.			

Section XIII. Disposal Considerations

- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.
- Bury residue in an authorised landfill.

Section XIV. Transportation information

Hazchem:	of the state of th	, No	ne	SARLE VA	The State of the S	
Not regulated for	transport of	UN	, IATA, IMD	Ğ		
dangerous goods						· Septimental Company



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Section XV. Regulatory Information

Poisons chemicals	None None	Sept.	E CARLON CONTRACTOR OF THE CON	Spirit.	E CARE	
Regulations		al (CAS: 1317- 7	1-1) is four	nd on the fo	llowing	CARLARE, TA
	regulatory list		. O			
		Exposure Standa			e Garbia	
Cathan Si Cathan Si Cathan	• OECD Rep Chemicals	resentative List	of High Pro	oduction vo	iume (HPV)	74. 1,0
	Chemicais	CARLY CO	SP .	CAR THE STATE OF T	CARLY.	CABL Jacob

Section XVI. Other information

None

Disclaimer/Statement of Liability

The information in this MSDS was obtained from sources that are believed to be reliable; however, the information is provided without any representation or warranty, express or implied, regarding its accuracy or correctness. The conditions or methods of handling, storage, use, and disposal of this product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of, or in any way connected with, the handling, storage, use or disposal of this product.