

Made in accordance with art.32 of EC regulation n.1907/2006 (REACH) & Reg. EU/830/2015

PRIME GARNET Ed. n. 3 dated

16/09/2022

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING		
1.1 Product Identification		
Product name: PRIME GARNET		
1.2 Relevant identified uses of the substance or mixture and uses advised against		
Use of substance/mixture: Mineral used in abrasives sector, industrial and civil sandblasting; manufacturing of abrasive papers and medias, manufacturing of high performance cements and masonry products, high performance filters for fluids, waterjet cutting; realization of syntetic sport fields.		
1.3 Details of the supplier of the technical datasheet		
Supplier: IGM SRL UNIPERSONALE Via Provinciale 101 Ragazzola 43010 Roccabianca (PR) tel.+39 0521 374048 fax+39 0521 374673 E mail: info@ igminerals.it		
1.4 Emergency telephone number		
Emergency telephone +39 0521 374048 (working hours)		
SECTION 2 HAZARDS IDENTIFICATION		
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2.1 Classification of the substance or mixture		
Classification of the mixture under EC Directive 1999/45/EC and EC Regulation N.1272/2008 (CLP) classified as non hazardous		



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2.2 Label elements		
CE DIRECTIVE 1999/45: HAZARDS	SYMBOLS -	
	RISK STATEMENTS (R PHRASES)	-
	PRECAUTIONARY STATEMENTS (S PHRASES)	
CE REGULATION N. HAZARD	S PICTOGRAMS - 127	2/2008 (CLP)
	WARNING:	-
	HAZARD STATEMENTS (H PRHASES)	
	PRECAUTIONARY STATEMENTS (P PHRASES) -	
2.3 Other Hazards (not determinant for	r the classification)	
· · · · · · · · · · · · · · · · · · ·	intrinsic hazard for human health, yet powder inhalation may d throat; and any accumulation in the airways can lead over time	
	SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS	
	a natural mixture of Almandite (neosilicate with chemical formula Fe3Al2(SiO4)3) and other minerals presents in traces.	
MINERALOGICAL COMPOSITION:		
NAME	% CONCENTRATION (p/p)	
Almandite	99	
- limenite	<1	
Other Minerals	<0,5	



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EC NAME	E	NUMBER		CAS	NUMBER % C	DNCENTRATION (p/p)
SILICON OXIDE (SiO ₂)	231-	545-4	7631-	86-9		35
f which:						
Crystalline Silica (Quarz)	238	-878-4	14808	-60-7	<	0.07*
Crystalline Silica (Quarz) - breathable fraction	238-878-4		14808-60-7		< 0.1**	
RON OXIDE (FeO)	21	5-721-8	134	5-25-1		33
LUMINIUM OXIDE (Al ₂ O ₃)	215-691-	6	1344-28-1		23	
IAGNESIUM OXIDE (MgO)	215-171	-9	1309-48-	4		7
CALCIUM OXIDE (CaO)	215-1	38-9	1305-7	8-8		1
MANGANESE OXIDE (MnO)	215-695	i-8	1344-43-	0		1
determined by X-ray diffractometry; Detection lin	nit of Quartz : 0.0	7%				

SECTION 4 FIRST AID

MEASURES

4.1 Description of fi rst aid n	asures	
EYE CONTACT:	Bathe the eye with abundance adverse symptom	dant running water. Call for medical assistance in case of ms.
SKIN CONTACT:	Wash with water the affect	ted area.
INHALATION:		relevant quantities of product, move the person to open air in area. Call for medical assistance in case of adverse symptoms.
INGESTION:		use, the product ingestion is an unlikely event; if anyhow rinse the mouth and drink water. Call for medical assistance in symptoms.

4.2 Most important symptoms and effects, both acute and delayed

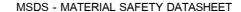


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Dust inhalation can cause coughing and irritation of the nose and throat; any accumulation in the airways can cause
over time chronic bronchitis and pneumoconiosis .
Direct contact of dust with eyes can cause reddening and tearing phenomena .
Prolonged and repeated skin contact can causereddening and dryness phenomena .
SECTION 5
FIRE-FIGHTING MEASURES
5.1 Extinguishing Media
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The product is non-combustible or combustive. Use fire extinguishing methods suitable to the materials
involved and affected by the fire .
SECTION 6 ACCIDENTAL RELEASE
MEASURES
In case of accidental release, collect the product with suitable mechanical means avoiding the dispersion
of dust; avoid dry sweeping; wash the area with water. Recycle and / or recover if possible. Waste
disposal must be in accordance with the Community / national / local regulations.
SECTION 7 HANDLING AND
STORAGE
7.1 Precautions for safe handling
Handle the product taking preventive measures and protection keen to minimize exposure to dust (eg .
adopt working techniques that limit the dispersion; prepare adequate intake and collection systems, use
of personal protective equipment , provide good conditions of industrial hygiene) .
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7.2 Conditions for safe storage, including any possible incompatibilities
It is advisable to keep the product in places protected from drafts and humidity , at a temperature between
the ambient and 50 ° C .
OF OTHER LA
SECTION 8
EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1 Control parameters





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Occupational exposure limits for inert dusts :

TLV - TWA (ACGIH) : 3 mg / m3 for respirable particles TLV - TWA (ACGIH) : 10 mg / m3 for inhalable particles

The measurement of the substances in the working environment must be done with standardized methods (eg. UNI EN 689: 1997 Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy; EN 482: 2006 Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) or, in their absence, with appropriate methods.

8.2 Exposure controls

Appropriate technical measures to control exposure, to be taken in the workplace , should be selected and applied as a result of the risk assessment carried out by the employer , in relation to its specific working conditions (in accordance with the international safety regulations carried out nationally and internationally, the employer shall take care of verifying the accordance to national and international regulations). If the results of this assessment show that the general and collective prevention measures in use are not sufficient to reduce the risk , and whether it would prove impossible by any other means to prevent exposure to the mixture, it shall be mandatory to adopt adequate personal protective equipment , complying with relevant technical standards UNI / EN.

8.2.1 Suitable technical controls

Minimize the dispersion of dust in the air; use processes' containment structures, ensure good workplace ventilation; provide adequate air/dust suction systems.

8.2.2 Personal protection measures, personal protection devices

EYES PROTECTION:	Wear eye	protection (according to UNI EN 166) , if prevention measures are not sufficient to reduce the risk of eye contact .
HANDS AND BODY PROTECTION:	In the event of pr	olonged or repeated contact with the skin , it is recommended to wear protective gloves made of rubber or other material suitable for the specific working process (according to UNI EN 374), and appropriate work clothes .
RESPIRATORY PROTECTION:	If the formation	of dust can not be adequately managed with suitable ventilation systems, it is necessary to wear respiratory protective equipment, such as fi ltering full face masks, half-face fi ltering masks or self contained breathing apparatus (according to UNI EN 149, 140 or 136).

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES



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Physical State:	Solid,	in granules	
Colour:	in	ense red, brownish red	
Odour:	0	dourless	
Solubility in water:	Non so	uble	
Solubility in stong acids:	< 1%		
Speci fi c weight:	4,1 g/	cm3	
Melting point:	1315	°C	
Grain Size:	fron	n #8/12 to 350 mesh (US standard grade)	
Hardness:	7,5	8,0 (Mohs Scale)	
Electrical Conductivity:	< 250 µs	/cm	
Flammability	not i	n¶ammable	
Oxidising properties	Non oxs	dising	

SECTION 10 STABILITY/REACTIVITY
10.1 Reactivity
The product is stable and inhert.
10.2 Chemical stability
The product is stable under normal temperature and pressure conditions.
10.3 Possibility of hazardous reactions
Hazardous reactions will not occur under normal transport and storage conditions
10.4 Conditions to avoid
Not known



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10.5 Incompatible materials
Not known
10.6 Hazardous decomposition products
It is not expected the formation of hazardous decomposition products .
SECTION 11 TOXICOLOGICAL
INFORMATION
Premium Garnet Supergarnet is a natural mixture of almandine (nesosilicate mineral with formula
Fe3Al2(SiO4)3). The product does not pose a danger inherent to human health, but the inhalation of dust can cause
coughing and irritation of the nose and throat; any accumulation in the airways can lead over time chronic
bronchitis and pneumoconiosis .
Direct contact of dust with eyes can cause reddening and tearing phenomena . Prolonged and repeated skin contact , can cause phenomena of reddening and dryness .
SECTION 12 ECOLOGICAL
INFORMATION
The mixture does not present toxic effects to the environment .
The product is of an inorganic nature , is not subject to phenomena of biological degradability and
bioaccumulation .
SECTION 13 DISPOSAL
CONSIDERATIONS
Recycle if possible . Do not release into the environment . Waste disposal must be in accordance with all
applicable regulations.
SECTION 14 TRANSPORT INFORMATION
This product does not require classification for transport.
SECTION 15 REGULATORY
INFORMATION



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

No specific regulation/legislation for fhe product

SECTION 16 OTHER

INFORMATIONS

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BIBLIOGRAPHIC SOURCES:

Position Paper (January 2014) Classification and labelling of crystalline silica ($\mathbf{\tilde{f}}$ ine fraction) – IMA Europe http://www.crystallinesilica.eu

ABBREVIATIONS AND ACRONYMS:

- ACGIH: American Conference of Governmental Industrial Hygienists
- IMA: European Industrial Minerals Association
- SweRFcs : Size Weighted Respirable Fraction of Crystalline Silica
- -TLV TWA: TLV TWA (Threshold Limit Value 8 hour Time Weighted Averages): pondered average concentration over time on a conventional working day of eight hours and 40 hours a week, with this working timeshift it is believed that nearly all workers may be repeatedly exposed without adverse effect.

NOTICE TO USERS

This document has the purpose to provide a guide for appropriate handling of this product. The product should not be used for purposes other than those listed, except in case they are received adequate information on how to handle. Any use of the mixture that does not meet the guidelines outlined in this document or the use of the product in combination with any other product or any other process, will be at the sole responsibility of the user. The information in the document should not be considered a representation or warranty of merchantability, fitness for a particular purpose or quality.