Galaxy Garnet

SECTION 1. IDENTIFICATION

Product Identifier

Galaxy Garnet

Other Identification

Sino Garnet

Recommended Use

Blasting media.

Restrictions on Use

Use only as directed.

Manufacturer /

Opta Minerals Inc., 407 Parkside Drive

Supplier

P.O. Box 260, Waterdown, Ontario, Canada, LOR 2H0, (905) 689-7361,

www.optaminerals.com

Emergency Phone No. CHEMTREC (Canada & USA), 1-800-424-9300, 24 hours

CHEMTREC, (outside North America), 1-703-527-3887, 24 hours

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SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Carcinogenicity - Category 1A; Specific target organ toxicity (repeated exposure) - Category 1

GHS Label Elements



May cause cancer or damage to respiratory system through prolonged or repeated exposure by inhalation.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Garnet	1302-62-1	>97	
Silica, crystalline quartz	14808-60-7	<1	SiO2
Ilmenite	12168-52-4	<1	FeTiO3
Feldspar	68476-25-5	<1	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. If experiencing respiratory symptoms (e.g. coughing, shortness of breath, wheezing), call a Poison Centre or doctor.

Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the

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eyelid(s) open.

If eye irritation persists, get medical advice/attention.

Ingestion

Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Call a Poison Centre or doctor if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

May irritate or cause inflammation or pulmonary fibrosis of the respiratory system.

Immediate Medical Attention and Special Treatment

Target Organs

Respiratory system.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

Unsuitable Extinguishing Media

Not applicable.

Specific Hazards Arising from the Chemical

Does not burn.

This product presents no unusual hazards in a fire situation.

Not known to generate any hazardous decomposition products in a fire.

Special Protective Equipment and Precautions for Fire-fighters

No special precautions are necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet. Review Section 7 (Handling) of this safety data sheet before proceeding with clean-up.

Environmental Precautions

Although this product is not classified as an environmentally hazardous material, large or frequent spills may cause potential problems.

Methods and Materials for Containment and Cleaning Up

Avoid generating dust. Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid generating dusts. Wear personal protective equipment to avoid direct contact with this chemical.

Conditions for Safe Storage

Store in an area that is: dry.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Garnet			5 mg/m3 *			

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Silica, crystalline quartz	0.025 mg/m3 * A2			
Ilmenite	5 mg/m3			
Feldspar		15 mg/	/m3 *	

^{*} respirable total dust, OSHA (PEL)= 15 mg/m3 crystalline Silica, ACGIH, TWA, 0.10 mg / m3 (ACGIH), 0.025 mg /m3, respirable.

Appropriate Engineering Controls

Do not allow product to accumulate in the air in work or storage areas, or in confined spaces. Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible. Do not get in eyes.

Skin Protection

Avoid repeated or prolonged skin contact. Always wear insulated protective clothing, if contact is possible.

Respiratory Protection

Wear a NIOSH approved air-purifying respirator with N95 or higher rating filter(s).

In conditions where the levels of airborne dust exceed the capabilities of the above referenced respirators, a supplied-air respirator may be necessary.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance

Red - brown crystalline.

Odour

Faint

Odour Threshold

Not applicable Not applicable

pΗ Melting Point/Freezing Point

Not applicable (freezing)

Initial Boiling Point/Range

Not applicable

Flash Point

Not applicable

Evaporation Rate

Not applicable

Upper/Lower Flammability or

Not applicable (upper); Not applicable (lower)

Explosive Limit

Vapour Pressure

Not applicable

Vapour Density (air = 1)

Not applicable Not available

Relative Density (water = 1)

Not applicable in water

Solubility Auto-ignition Temperature

Not applicable

Other Information

Physical State

Solid

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Not applicable.

Conditions to Avoid

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Generation of dust.

Incompatible Materials

Strong acids (e.g. hydrochloric acid). Strong oxidizing agents (e.g. perchloric acid).

Hazardous Decomposition Products

Not applicable.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation. Skin contact. Eye contact. Ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)	
Garnet	Not available	Not available	Not available	
Silica, crystalline quartz	Not available	22,500 mg/kg (rat)	Not available	
Ilmenite	Not available	30,000 mg/kg (rat)	Not available	
Feldspar	Not available	> 2,000 mg/kg (rat)	Not available	

Skin Corrosion/Irritation

May cause irritation.

Serious Eye Damage/Irritation

May cause irritation or injury due to mechanical abrasion.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May irritate or cause inflammation or pulmonary fibrosis of the respiratory system.

Skin Absorption

May cause irritation.

Ingestion

May cause irritation of the mouth, throat and stomach.

Aspiration Hazard

May be drawn into the lungs (aspirated) if swallowed or vomited.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Long term inhalation of dusts can attribute to risk of lung diseases.

Inhalation of respirable silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of silica dust may cause serious health effects which can include the following; Silicosis, Accelerated Silicosis, Acute Silicosis, Cancer, Autoimmune Disease, Tuberculosis and Kidney Disease.

Respiratory and/or Skin Sensitization

May cause irritation on prolonged contact.

Carcinogenicity

Crystalline Silica (quartz) has been determined as carcinogen.

Reproductive Toxicity

Development of Offspring

There is no evidence this product contributes Teratogenicity or Embryotoxicity.

Sexual Function and Fertility

No ingredients in this product are known to contribute to reproductive toxicity.

Germ Cell Mutagenicity

Not known to be a mutagen.

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Interactive Effects

None known.

SECTION 12. ECOLOGICAL INFORMATION

Although this product is not classified as an environmentally hazardous material, large or frequent spifts may cause potential problems.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction. The required hazard evaluation of the waste and compliance with the applicable hazardous waste laws are the responsibility of the user.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG Regulations. Not regulated under US DOT Regulations.

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

SECTION 16. OTHER INFORMATION

SDS Prepared By

Mark Bryans

Phone No.

(905) 689-7361, ext 234

Date of Preparation

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Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists

OSHA = US Occupational Safety and Health Administration

HSDB® = Hazardous Substances Data Bank

References

CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).
Registry of Toxic Effects of Chemical Substances (RTECS®) database. Accelrys, Inc.
Available from Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for

Occupational Safety and Health. Available from Canadian Centre for Occupational Health and

Safety (CCOHS).

Disclaimer

To the best of our knowledge, the information contained herein is accurate.

Although certain hazards are described herein, we can not guarantee that these are the only

hazards that exist.

Opta Minerals Inc. assumes no liability arising out of the use of this product by others.

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