

## Garnet Sand IG

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Garnet Sand IG
<b>Other Identification</b>	Garnet Andradite
<b>Recommended Use</b>	Abrasive jet cutting, filtration and blast cleaning media.
<b>Restrictions on Use</b>	Use only as directed.
<b>Manufacturer/Supplier Identifier</b>	Opta Waterdown Inc, 104-3027 Harvester Road, Burlington, Ontario, L7N 3G7, (905) 689-6661, <a href="http://www.optagroupllc.com">www.optagroupllc.com</a>
<b>Emergency Phone No.</b>	CHEMTREC (Canada & USA), 1-800-424-9300, 24 hours CHEMTREC, (outside North America), 1-703-527-3887, 24 hours
<b>SDS No.</b>	1449

### SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).

#### Label Elements

Not hazardous in accordance with Hazcom 2012 and WHMIS 2015.

#### Other Hazards

Prior to blasting, the potential hazards of the blasted material (paints, coatings etc). should be investigated.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Andradite	15078-96-3	>99	Ca3Fe2(SiO4)3	
Silica, crystalline quartz	14808-60-7	<0.1	SiO2	

### 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 eyelid(s) open.

If eye irritation persists, get medical advice or attention.

##### Ingestion

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

#### **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 Product**

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**

Wear self contained breathing apparatus.

## **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 a dry area.

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Control Parameters**

	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Silica, crystalline quartz	0.025 mg/m <sup>3</sup> * A2					
Andradite	5 mg/m <sup>3</sup>					

\* Respirable Total dust, OSHA (PEL)= 5 mg/m<sup>3</sup>.

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## 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	Grey - brown crystalline.
Odour Threshold	Not applicable
pH	Not applicable
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 Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not applicable
Relative Density (water = 1)	Not available
Solubility	Not applicable in water
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

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.

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Silica, crystalline quartz	Not available	22,500 mg/kg (rat)	Not available
Andradite	Not available	Not available	Not available

### Skin Corrosion/Irritation

No significant irritation expected other than possible mechanical irritation.

### Serious Eye Damage/Irritation

May cause irritation or injury due to mechanical abrasion.

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

May irritate the respiratory system.

#### Ingestion

May cause irritation or nausea.

### Aspiration Hazard

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

### STOT (Specific Target Organ Toxicity) - Repeated Exposure

May cause irritation of the respiratory system.

### Respiratory and/or Skin Sensitization

May cause irritation on prolonged contact.

### Carcinogenicity

Contains less than 0.1% crystalline silica.

### 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.

### Interactive Effects

None known.

## SECTION 12. ECOLOGICAL INFORMATION

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

### Persistence and Degradability

No ingredient of this product or its degradation products is known to be highly persistent.

### Bioaccumulative Potential

This product and its degradation products are not known to bioaccumulate.

### Mobility in Soil

If released into the environment, this product does not move through the soil.

## 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.

**Special Precautions** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## 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.

#### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Andradite Garnet is not listed on the DSL, however all of the chemical components of the garnet are listed.

#### USA

#### Toxic Substances Control Act (TSCA) Section 8(b)

Exempt from TSCA Inventory requirements.

#### Additional USA Regulatory Lists

California Proposition 65: Crystalline silica (airborne particulates of respirable size) is known by the State of California to cause cancer.

## SECTION 16. OTHER INFORMATION

<b>NFPA Rating</b>	<b>Health - 1</b>	<b>Flammability - 0</b>	<b>Instability - 0</b>
<b>SDS Prepared By</b>	Technical Team		
<b>Phone No.</b>	(905) 689-7361, ext 351		
<b>Date of Preparation</b>	June 11, 2021		
<b>Date of Last Revision</b>	July 08, 2025		
<b>Key to Abbreviations</b>	ACGIH® = American Conference of Governmental Industrial Hygienists OSHA = US Occupational Safety and Health Administration HSDB® = Hazardous Substances Data Bank		
<b>References</b>	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA (“BIOVIA”). 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).		
<b>Disclaimer</b>	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 Inc. assumes no liability arising out of the use of this product by others.		

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