



# MATERIAL SAFETY DATA SHEET

*This Material Safety Data Sheet meets or exceeds the requirements of the Canadian Controlled Product Regulations (WHMIS)*

## 1. Product and Supplier Identification

**Product:** C Garnet 20/40 9992792  
C Garnet 20/40 Bulk Bag 9992793

**Product Use:** Abrasive for Blasting

**Supplier:** Target Products Ltd,  
8535 Eastlake Drive  
Burnaby, BC  
Canada, V5A 4T7  
Telephone: 1.604.444.3620

24-Hour Emergency Response Telephone for Transport Emergencies ONLY: +1 (613) 996-6666

## 2. Composition

Garnet sand is a natural mixture of almandine garnet and other trace minerals.

Component	CAS Number	Proportion (weight %)
Almandine Garnet $\text{Fe}_3\text{Al}_2(\text{SiO}_4)_3$	1302-62-1	$\geq 95\%$
Ilmenite $\text{FeTiO}_3$		$\leq 1.0\%$
Calcium Carbonate $\text{CaCO}_3$		$\leq 1.0\%$
Zircon $\text{ZrSiO}_4$		$\leq 0.2\%$

## 3. Hazards Identification

### Routes of Entry:

Skin Absorption: No  
Skin Contact: No  
Eye Contact: Yes  
Ingestion: Yes  
Inhalation: Yes

### Health Effects:

**Acute:** None known. Use as blast cleaning substance may create exposure to nuisance dust.  
Swallowed: No effects known.

Eye: Exposure to nuisance dust when used as blast cleaning substance may cause eye irritation.

Skin: Not irritating to skin.

Inhaled: Exposure to nuisance dust when used as blast cleaning substance may cause throat & lung irritation, coughing and shortness of breath.

**Chronic:** No known health effects arising from long-term exposure of workers to this substance.

## 4. First Aid Measures

**Inhalation:** If overexposure occurs, remove to area free from risk of further exposure. Treat symptomatically. Seek medical attention if irritation persists.

**Skin Contact:** Wash affected area thoroughly with soap and water. If irritation persists, seek medical attention.

**Eye Contact:** Immediately and thoroughly flush eyes with large amounts of water for at least 15 minutes, holding lower and upper eyelids apart to ensure complete irrigation. If irritation, pain, swelling, or lacrimation exists, get medical attention as soon as possible.

**Ingestion:** If patient is conscious, give one or two glasses of water. Do not give anything by mouth to a convulsing or unconscious person. Get immediate medical attention.

**Note to Physician:** No specialized procedures. Treat for clinical symptoms.

## 5. Fire Fighting Measures

**Flash Point:** Non-flammable, non-combustible

**Auto-ignition Temperature:** Not applicable

**Lower Explosive Limit:** Not applicable

**Upper Explosive Limit:** Not applicable

**Extinguishing Media:** Use any medium necessary to extinguish surrounding fire.

**Fire Fighting Instructions:** No special instructions.

**Unusual Fire and Explosion Hazards:** Static sparks may be generated during blasting operation. Special consideration should be given to work areas and applications in which flammable or combustible vapors, mists, gasses or clouds of combustible dust are either present or may be released.

## 6. Accidental Release Measures

**Cleanup Procedures:** Scoop into clean, dry containers for disposal. Wash away uncontaminated residue with water.

## 7. Handling and Storage

**Storage:** Do not store near foodstuffs.

## 8. Exposure Controls, Personal Protection

**Exposure Standard:** Nuisance dust level should be kept below  $10 \text{ mg/m}^3$ . If this level is exceeded, the protection of respiratory system shall be required.

**Engineering Control:** Maintain ventilation and/or dust collection to reduce dust exposure to nearby workers. Maintain clean and safe work environment and monitor its effectiveness.

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**Personal Protection:** Blast cleaning shall use an air-fed abrasive blasting hood approved by AS 1715, such as Nova 2000, as well as leather (or equivalent) gloves & apron. Hearing protection shall also be worn during blast cleaning.

### 9. Physical and Chemical Properties

**Appearance:** Pink to red colored sand with no odor  
**Melting Point:** Approximately 1220°C  
**Vapor Pressure:** Not applicable  
**Specific Gravity:** 4.0-4.2  
**Flashpoint:** Material is a non-flammable solid  
**Flammability Limit:** Not applicable  
**Solubility in water:** Not soluble in water

**Other Properties:**  
**Bulk Density:** 2.15g/cm<sup>3</sup>  
**Hardness:** 7.5-8.0 on the Mohs scale  
**Radioactivity:** Not detectable above ground

### 10. Stability and Reactivity

**Chemical Stability:** This product is stable.  
**Hazardous Polymerization:** Will not occur.  
**Incompatibility:** None known  
**Hazardous Decomposition Products:** None known

### 11. Toxicological Information

Not available

### 12. Ecological Information

Not available

### 13. Disposal Considerations

**Storage and Transport:** No special precautions necessary.

**Spills:** No special precautions necessary. Sweep or vacuum material for disposal.

**Disposal:** Follow local, provincial, state or federal guidelines for disposal of inert solid waste, eg. landfill. MATERIAL CONTAMINATED IN USE MAY NEED SPECIAL HANDLING.

### 14. Transport Information

**Hazchem Code:** No Hazchem Code allocated

**Poison Schedule No.:** No Poison Schedule No. allocated

## 15. Regulatory Information

**Dangerous Goods Class and Subsidiary Risk:** None allocated

## 16. Other Information

**Original Preparation Date:** May 26, 2011

**Revised:** 24 February 2015

**Disclaimer:** This Material Safety Data Sheet was prepared in accordance with criteria and requirements of the Hazardous Products Act and the Controlled Products Regulations using information provided by the manufacturer and other sources including CCINFO (Chemical Information published by the Canadian Centre for Occupational Health and Safety). The information in the Material Safety Data Sheet is offered for your consideration and guidance when exposed to this product. TARGET PRODUCTS LTD. expressly disclaims all expressed or implied warranties and assumes no responsibilities for the accuracy or completeness of the data contained herein. The data in this MSDS does not apply to use with any other product or in any other process.

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**END OF SAFETY DATA SHEET**