

SECTION 1: Chemical Product and Company Identification

SDS name: Garnet Abrasive Grains

Product form: Flakes

Product name: GF07B

Company identification:

Next Advance, Inc.

2113 State Highway 7

Troy, NY 12180 USA

www.nextadvance.com

For information, call: 518-674-3510

For CHEMTREC assistance, call: US:001-800-424-9300 / Europe:001-703-527-388

For Emergency, call: US:001-201-796-7100 / Europe: +32 14 57 52 99

SECTION 2: Composition, Information on Ingredients

CAS #	Chemical Name	% Weight
1302-62-1	Almandine/Almandite-Ferric Aluminum Silicate	94% to 99.6%
14808-60-7	Quartz	< 0.65%
7439-89-6	Iron	0.01% to 0.2%
12178-42-6	Hornblende	0.01% to 0.02%
68476-25-5	Feldspars	0.01% to 0.02%

SECTION 3: Hazards Identification

Not classified as hazardous according to US Agency for Toxic Substances and Disease Registry and the American Conference of Governmental Industrial Hygienists.

Potential Health Effects

Acute

Swallowed: Non-toxic. There are no known hazards resulting from accidental ingestion of garnet particles as may occur during normal handling. Swallowing a large amount may result in irritation to the digestive system due to abrasives.

Eye: may be moderately irritating due to abrasiveness.

Skin: Low hazard.

Inhaled: The normal size of grain of the product precludes it from being an inhalation hazard, however handling can cause grains to fracture so producing dust. This is normally regarded as general nuisance dust, but can be irritating if inhaled at high dose.

Chronic

Silica: Crystalline silica is a known cause of lung fibrosis (silicosis). It has also been classified as a human carcinogen. (International Agency for Research on Cancer). Garnet flakes contain a small amount of free quartz, (up to 0.5%) and precautions should be taken to avoid inhaling the dust.

SECTION 4: First Aid Measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Blow nose to remove particles from nasal passages. If any adverse reaction develops, seek medical attention.

Skin: In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Wash skin with soap and water.

Eyes: In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion: Get medical attention if symptoms occur.

SECTION 5: Fire-fighting Measures

Flash Point (°C): N/A

Flammable Limits: N/A

Extinguishing Media: In case of fire use media as appropriate for surrounding fire.

Special Procedures: N/A

Unusual Fire & Explosion Hazards: This product is not flammable and does not support combustion.

Advice for firefighters: Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

SECTION 6: Accidental Release Measures

Personal Precautions: Do not walk through spilled material. Wear appropriate Personal Protective Equipment.

Emergency Procedures: As an immediate precautionary measure, isolate spill or leak area for at least 25 meters (75 feet) in all directions.

Environmental precautions: Avoid run off to waterways and sewers.

Containment/Clean-up Measures: Avoid generating dust. Sweep or vacuum up material for disposal or recovery.

SECTION 7: Handling and Storage

Handling: No special precautions necessary for normal handling of the material. Use only with adequate ventilation. Do not breathe dust. Wear appropriate personal protective equipment, avoid direct contact

Storage: No special precautions necessary for normal storage of the material. Keep container/package tightly closed and in a well-ventilated place. Store locked up.

SECTION 8: Exposure Controls/ Personal Protection

Engineering Measures/Controls: Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Respiratory Protection: For limited exposure use an N95 dust mask. For prolonged exposure use an air-purifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Protective Gloves: Wear protective clothing and gloves.

Eye Protection: Wear safety glasses.

Other Equipment: None required.

Work/Hygiene Practices: Observe standard industrial hygiene practices.

Environmental Exposure Controls: Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

SECTION 9: Physical and Chemical Properties

Boiling Point: N/A

Vapor Pressure: Not Volatile

Vapor Density: N/A

Melting Point: 1315°C (2399°F)

Evaporation Rate: Not Volatile

Color: Reddish brown to pink

Safety Data Sheet

Garnet Flakes

Physical Form: Solid
Odor: Odorless
Appearance: Reddish brown to pink grains
Solubility (Water): Insoluble
Hardness Case: 25 - 40 HRC
Shape: Grains
Specific Gravity/Relative Density: 4.1 Water=1
Bulk Density: 2.4 g/cm³

SECTION 10: Stability and Reactivity

Stable: Yes
Chemical Stability: Stable
Conditions to Avoid: None known.
Material to Avoid: None known.
Hazardous Decomposition: Decomposition will not occur.
Hazardous Polymerization: Hazard polymerization will not occur.

SECTION 11: Toxicological Information

Potential Health Effects

Inhalation

Acute (Immediate): Exposure to dust may cause irritation.

Chronic (Delayed): Inhalation of respirable dusts containing crystalline silica may cause lung injury or disease including silicosis and/or cancer.

Skin

Acute (Immediate): May cause abrasions.

Chronic (Delayed): No data available.

Eye

Acute (Immediate): Exposure to dust may cause irritation.

Chronic (Delayed): No data available.

Ingestion

Acute (Immediate): No known effects, however ingestion not recommended.

Chronic (Delayed): No data available

SECTION 12: Ecological Information

12.1 Toxicity: Material data lacking.

12.2 Persistence and degradability: Material data lacking.

12.3 Bioaccumulative potential: Material data lacking.

12.4 Mobility in Soil: Material data lacking.

12.5 Results of PBT and vPvB assessment: No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects: No studies have been found.

This material is unlikely to cause any environmental damage. It is insoluble in water and is unlikely to contaminate waterways or food chains.

SECTION 13: Disposal Considerations

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

SECTION 14: Transport Information

Products covered by this SDS, in their original form, are not regulated for transportation.

Ground Transportation (US DOT): Not regulated

Air Transport (IATA): Not regulated

Marine/Water Transport (IMDG): Not regulated

SECTION 15: Regulatory Information

U.S. Federal Regulations

TSCA Inventory Status: Reported/Included

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute: No

Chronic: Yes

Fire: No

Reactivity: No

Pressure: No

Lists

SARA Extremely Hazardous Substance: No

CERCLA Hazardous Material: No

SARA Toxic Chemical: No

Radiological Protection: The regulation pertaining to radiological protection vary from country to country. It is the responsibility of the buyer to ensure that those are met in accordance with its country law.

SECTION 16: Other Information

Revision Date: August 21, 2026

Note: This product contains small quantities of quartz and radionuclides, both known to cause cancer.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Next Advance, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.