

STEEL GRIT

ABRASIVE

IDENTIFICATION

Product Name:	Steel Grit
Other Names:	
Recommended Use:	Shot blasting
Supplier:	BlastOne International
Address:	57 Alexandra Place, Murarrie, Queensland, Australia 4172
Telephone Number:	(07) 3329 5000
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Emergency Number:	13 11 26 (Poison Information Centre)

COMPOSITION/INFORMATION ON INGREDIENTS

This material is predominantly a compound of Iron (Fe), Carbon (C), Silicon (Si) and Magnesium (Mn). Composition is a mixture of substances listed below with nonhazardous additions.

CHEMICAL NAME	CAS NUMBER	PROPORTION (%)
Iron	7439-89-6	98%
Others		2%

HAZARDS IDENTIFICATION

Classified as a GHS02 Flame hazard.

Risk Phrase

H251 Self-heating, may catch fire.

Safety Phrase

P280 Wear protective gloves, clothing, eye and face protection.

P235 & P410 Keep cool and protect from sunlight.

P420 Store away from other materials.

P407 Maintain air gap between stack/pallets.

FIRST AID MEASURES

Persons using this product should consult a physician or other medical professional if an accident involving this product in injury. Specific first-aid measures are as follows:

Eye:	In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if breathing problems develop.
Skin Contact:	In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.
Ingestion:	If swallowed, seek immediate medical attention. Rinse mouth. Do not induce vomiting without professional instruction.
Personal Protective Equipment:	Recommend wearing protective gloves (e.g. rubber gloves). Wear respirators and safety goggles when exposure limits are exceeded or working in a dusty environment.
Hygienic Measures:	Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.

FIRE FIGHTING MEASURES

Flammability Limits:	Nonflammable (solid).
Flashpoint:	Not applicable.
General Hazard:	This product will not burn or explode. A mild fire or explosion hazard may be created due to fine dust created by use. Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.
Extinguishing Media:	Dry chemical and dry sand. Do not use water spray or other liquids, or foam.
Special Fire-Fighting Method (This is for fire caused by other ignition sources):	For initial fire, use dry powder, carbon dioxide, etc. For large fire, it is effective to use fire foam, etc. to shut off air supply. Fire-fighters must wear self-contained breathing apparatus and full protective equipment (e.g. fire-retardant clothing). Deny unnecessary entry to the place around the fire. Remove containers from fire area if it can be done without risk. Cool surrounding facilities, etc. with water spray. Extinguish fire from upwind, and the fire extinguishing method should be appropriate to the situation in the surroundings.

ACCIDENTAL RELEASE MEASURES

Personal:	Wear Safe Work Australia approved full protective clothing. Evacuate all nonessential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.
Environmental:	In the event of a major spill, prevent spillage from entering drains or water courses.
Cleaning-up:	When cleaning up large quantities of dust use a Safe Work Australia approved respirator. Spilled product can be disposed as a hazardous waste or salvaged. Keep collected waste out of municipal sewers and open bodies of water.

HANDLING AND STORAGE

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Transport:	Ensure secured when packed.
Storage:	Store in a cool, dry and well ventilated area. Protect from direct sunlight, heat, sparks, flame or other sources of ignition when in dust form. Store away from acids. Keep dry to reduce rusting.
Usage:	Avoid spillage.
Disposal:	Material is readily recyclable as steel scrap in its supplied condition. Should the material become contaminated in any way during use it is the user's duty to consider suitable means of disposal.

Packaging consists of wooden pallet, polythene/polypropylene and cardboard. Appropriate measures for recycling/disposal should be considered. Adequate resources for fire fighting should be available, particularly in the case of fires involving plastics.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:

	Short Term	Long Term
Manganese	3 mg/m ³	1 mg/m ³
Silicon		10 mg/m ³
Iron (Fumes)		5 mg/m ³
Iron (Dust)		2 mg/m ³ - ACGIH
Chromium		0.5 mg/m ³
Nickel (Powder)		1 mg/m ³ carc.2
Sulfur		5 mg/m ³ - ACGIH

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

Personal Protection: Respiratory Protection, If high airborne concentrations of the dust are present use a Safe Work Australia approved respirator. See Australian Standards AS/NZS 1715 and 1716 for more information. Skin Protection, Protective gloves and protective clothing. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information. Eye and Face Protection, Safety glasses with top and side shields or goggles. See Australian Standards AS/NZS 1336 and 1337 for more information.

PHYSICAL AND CHEMICAL PROPERTIES

Colour:	Silvery white/silvery gray/ brilliant blue	Hardness:	Not available.
Appearance:	Solid.	Bulk Density:	@20°C >7000 g/cm ³
Odour:	Odourless.	Particle Size:	Not available.
pH:	Not applicable.	Evaporation Rate:	Not available.
Vapour Pressure:	Not applicable.	Vapour Density:	Not available.
Boiling Range:	1480°C	Explosion Limit:	Not available.
Melting Point:	1500°C.	% Volatiles:	Not available.
Radioactivity:	Not available.		
Solubility in Water:	Insoluble in water.		
Specific Gravity:	Not available.		
Form:	Angular.		
Flammability:	Not applicable.		

STABILITY AND REACTIVITY

Chemical Stability:	Stable at ambient temperature and under normal conditions of use.
Conditions to Avoid:	Heat and fire (when in dust form).
Incompatible Materials:	Strong acids.
Decomposition:	No hazardous decomposition products known.
Hazardous Reactions:	Hazardous polymerisation will not occur.

TOXICOLOGICAL INFORMATION

Product Toxicity Data: The toxicity data of this product has not been determined by testing or research, but to our best knowledge and reference, this product is not a toxic product.

Ingredient(s)/Product	CAS#	LD 50/LC 50 (median lethal dose)
Iron	7439-89-6	Acute toxicity (Oral) LD50>20,000 mg/kg (rat) Data source: ECHA Acute toxicity (Inhalation, dust) LD50>100 mg/m ³ /6h (rat) Data source: ECHA

Health Hazard:	Prolonged or repeated exposure to manganese dust or fumes may cause CNS effects. Prolonged or repeated exposure to chromium dust or fumes may affect lungs. Prolonged or repeated exposure to nickel dust or fumes may affect nasal passages and lungs.
Eye:	May cause eye irritation.
Inhalation:	May cause irritation of the respiratory tract.
Skin:	No irritating effect. No sensitising effects known.
Ingestion:	Not a usual route of exposure.
Toxicity Data:	Chromium metallic is classified by IARC as a Group 3 - Not classifiable as to its carcinogenicity to humans. Nickel is classified by Safe Work Australia as Carcinogen Category 3. Nickel metallic and alloys are classified by IARC as Group 2B - Possibly carcinogenic to humans.

EXOLOGICAL INFORMATION

Toxicity:	Ecological and aquatic toxicity information unavailable.
Persistence:	No information available.
Degradability:	No information available.
Bioaccumulative:	No information available.
Mobility in Soil:	As it is in solid status, it can hardly move in soil.
Other Adverse Effects:	No information available.

DISPOSAL CONSIDERATIONS

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Dispose according to applicable local and state government regulations.

Please consult your state Land Waste Management Authority for more information.

Chemical Waste:	Transport to specialized waste disposal sites for disposal. It must strictly follow local regulations for disposal.
Contaminated Packaging:	The container or packaging may remain noxious substance and should be disposed as a hazardous waste.
Cautions for Disposal:	Do not allow product to reach sewage system. Do not throw it into any open bodies of water. Waste recycling must be operated strictly according to relevant regulations.

TRANSPORT INFORMATION

Not classified as dangerous goods.

Proper Shipping Name: Not regulated.
Hazard Class: Not classified.
UN Code: Not regulated.
Packing Group: Not classified.
Packing Group Symbol: Not classified.
Marine Pollutant (Yes/No): No
EMS No.: Not regulated.

REGULATORY INFORMATION

Australian Inventory of Chemical Substances:

7439-89-6	Iron	7440-21-3	Silicon
7440-44-0	Carbon	7440-47-3	Chromium
7439-96-5	Manganese	7440-02-0	Nickel
7704-34-9	Sulfur		

OTHER INFORMATION

Note: The information supplied does not constitute the user's own assessment of workplace risk as required by other Health and Safety legislation.

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