



## **SAFETY DATA SHEET**

### **Section 1: Identification**

#### **1.1 Product identifier**

Product Name: Guyson Metalbead ®  
Product Part Number: 900042

#### **1.2 Relevant identified uses of the substance or mixture and uses advised against**

Blast Cleaning, Shot Peening  
There is no information about uses advised against.

#### **1.3 Details of the supplier of the product information**

Supplier: Guyson Corporation of U.S.A.  
13 Grande Blvd.  
Saratoga Springs, NY  
12866 [www.guyson.com](http://www.guyson.com)  
[info@guyson.com](mailto:info@guyson.com)

#### **1.4 Telephone number: 518-587-7894**

### **Section 2: Hazard Identification**

#### **2.1 Classification of the substance or mixture**

Iron abrasive itself is chemically inert and does not present any risk to people or to the environment. Risks are dependent upon the user's process and application. Potential health risks are linked to the exposure to dust, produced by the fragmentation of the abrasives and particles removed from the blasted parts or during surface treatment.

The unused product does not contain any components in concentrations which require a classification as a hazardous substance.

**GHS Classification:** Not classified as dangerous for supply/use.

**EC Classification:** Not classified as dangerous for supply/use.

#### **2.2 Hazards Summary**

Dust may cause irritation. Caution - spillages may be slippery. When used for abrasive blasting, this material can rebound or fragment into sharp particles which are hazardous to the eyes and skin. Noise is a major hazard in abrasive blasting processes. Abrasive blasting can generate heat, sparks, and static electrical charge.

#### **2.3 Combustible Dust Hazard:**

Warning: May form combustible dust concentrations in air (during processing and application).

#### **2.4 Additional information**

During mechanical application (e.g. in blasting machines), dust and vapor may occur. Where dust is present, combustible dust safety precautions are to be observed. The statutory values for dust and vapor in your country have to be observed.

**Section 3: Composition / Information on ingredients****3.1 Substances**

Main ingredients	Hazard symbols.	Weight content	H-Phrases	CAS	EINECS
Iron	--	>98	--	7439-89-6	231-096-4
Carbon	--	0,14-0,18	--	7440-44-0	231-153-3
Manganese	--	0,35-0,7	--	7439-96-5	231-105-1
Silicon	--	0,65-0,85	--	7440-21-3	231-130-8

The ingredients mentioned above are not freely available. All ingredients are bond firmly in the alloy matrix.

**Section 4: First-Aid Measures****4.1 Description of first aid measures**

- **Inhalation:** If there is gross inhalation of dust causing coughing and shortness of breath, remove victim to fresh air. If breathing has stopped, perform artificial respiration. Seek medical attention.
- **Skin Contact:** Not absorbed through the skin. May cause abrasions. Wash with soap and water. Obtain first aid or medical assistance as needed if symptoms occur.
- **Eye contact:** If shot, grit or particles get into eyes, Irrigate with plenty of water or eyewash solution for at least 15 minutes. Seek medical attention if symptoms persist.
- **Ingestion:** If large amounts are swallowed, do not induce vomiting. Seek medical attention. Ingestion is not anticipated.

**4.2 Most important symptoms and effects, both acute and delayed**

Dust may cause irritation. Caution - spillages may be slippery. Dust may cause discomfort and mild irritation.

**4.3 Indication of any immediate medical attention and special treatment needed**

See section 4.1.

**Section 5: Fire-Fighting Measures****5.1 Extinguishing media**

The unused product itself does not burn unless there is dust. (i.e. particles less than 450 microns.) Extinguishing media should therefore be selected as appropriate to surroundings.

**5.2 Special hazards arising from the substance or mixture**

None.

**5.3 Advice for fire-fighters**

Stay in danger area only with self-contained breathing apparatus.

**Section 6: Accidental Release Measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear suitable protective clothing. Wear eye/face protection.

**6.2 Special hazards arising from the substance or mixture**

No special hazards known.

**6.3 Methods and materials for containment and cleaning up**

Caution - spillages may be slippery. Avoid generation of dust. Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal. If dust is being vacuumed, combustible dust precautions need to be followed.

**6.4 Reference to other sections**

None.

**Section 7: Handling and Storage****7.1 Precautions for safe handling**

Avoid contact with eyes, skin and clothing. Avoid generation of dust. Wash thoroughly after handling. Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place.

Minimize dust generation and accumulation. Keep dust away from all ignition sources including static electricity, heat, sparks and flame.

Clean as needed to prevent hazardous accumulation or dispersion of fugitive dust  
Bond and ground containers, equipment and/or conducting surfaces to minimize and dissipate electrostatic charge.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed and dry. Store in cool and well ventilated area.

**7.3 Specific end use**

Apart from the uses mentioned in Section 1.2 no other specific uses are stipulated.

**Section 8: Exposure Controls / Personal Protection****8.1 Control parameters****Components with workplace or biological limit values to be monitored**

General dust limit value:

AGW (Germany)	3mg/m <sup>3</sup>	Respirable fraction
	10mg/m <sup>3</sup>	Inhalable fraction

**8.2 Exposure Controls**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

**SAFETY DATA SHEET****8.3 Personal Protection****Pictograms:****Skin protection:**

Wear suitable protective clothing and gloves. For example, cotton or rubber.

**Eye protection:**

May cause abrasion and irritation. Wear tightly fitting safety glasses or goggles. Contact lenses may be dangerous when handling this product increasing the risk of discomfort and injury.

**Foot protection:**

Not required. Protective footwear is recommended.

**Respiratory protection:**

Wear suitable respiratory protective equipment if working in confined spaces with inadequate ventilation or where there is any risk of the exposure limits being exceeded. Observe OSHA regulations for abrasive blasting (29 CFR 1910.94) respirator use (29 CFR 1910.134). Disposable dust mask is recommended, type FFP2 or N95.

**General protective measures:**

Avoid contact with skin, eyes and mucosa.

**Section 9: Physical and Chemical Properties****9.1 Information on basic physical and chemical properties**

Form:	solid
Color:	grey, metallic gloss
Odor:	none
pH-Value:	insoluble in water
Melting point:	~1500°C
Boiling point:	no data available
Flash point:	none
Ignition temperature:	none
Lower explosion limit:	no data available
Upper explosion limit:	no data
available Vapor pressure [20°C]:	no data
data available Vapor density:	no data
available	
Density:	~7,4 g/cm <sup>3</sup>
Bulk density:	~4,3 g/m <sup>3</sup> (depends on the grain class)
Solubility in water:	insoluble in water

**9.2 Other data**

None.

**Section 10: Stability and Reactivity****10.1 Reactivity**

Avoid contact with strong acids

**10.2 Chemical stability**

The product is chemically stable under standard ambient conditions.

**10.3 Possibility of hazardous reactions**

Hazardous reactions cannot be excluded in contact with: Acids and alkaline, oxidizing agents.

**10.4 Conditions to avoid**

No information available

**10.5 Incompatible materials**

No information available.

**10.6 Hazardous decomposition products**

No information available.

**Section 11: Toxicological Information****11.1 Information on toxicological effects**

The substance or mixture is not classified as specific target organ toxicant, neither through single or repeated exposure.

**11.2 Further information**

Quantitative data on the toxicity of this product are not available. Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately. Handle in accordance with good industrial hygiene and safety practice.

**Section 12: Ecological Information****12.1 Toxicity**

No information available.

**12.2 Persistence and degradability**

No information available.

**12.3 Bio accumulative potential**

No information available.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PTB and vPvB assessment**

No information available.

**12.6 Other adverse effects**

No ecological problems are to be expected when the product is handled and used with due care and attention.

**Section 13: Disposal Considerations**

Product as supplied: The waste is considered to be non-hazardous provided it is not dust that can create a dust cloud and it has the potential to ignite. Disposal should be in accordance with local, state or national legislation.

**Section 14: Transport Information****14.1 UN Number**

Not classified as dangerous in the meaning of transport regulations.

**14.2 UN Proper shipping name**

Not classified as dangerous in the meaning of transport regulations.

**14.3 Transport hazard classes**

Not classified as dangerous in the meaning of transport regulations.

**14.4 Packing group**

Not classified as dangerous in the meaning of transport regulations.

**14.5 Environmental hazards**

Not classified as dangerous in the meaning of transport regulations.

**14.6 Special precautions for users**

Not classified as dangerous in the meaning of transport regulations.

**Section 15: Regulatory Information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Labeling according to EC directives: None

R-,H- Phrases: None

S-,P- Phrases: None

Water hazard class: None

**TSCA Inventory Status:** Reported/Included.

**AICS Inventory Status:** Reported/Included.

**DSL/NDSL Inventory Status:** Reported/Included.

**CERCLA:** There is no CERCLA Reportable Quantity for this material.

**SARA Title III:** Contains no SARA Title III, Section 313 notification chemical present at or above the de minimus concentration.

**German Water Hazard Classification VwVwS:** WGK class1 (low hazard to water).

**HMIS:** 0,0,0

**15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.



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**Section 16: Other Information**

Last Revision Date: 05/05/17

Preparation Date: 05/05/17

The indications made in this product information are based on the present state of our know-how and experience. The product information describes the unused product in view of safety requirements. The indications do not constitute any guarantee with regard to product and do not create a contractual legal relationship.

All information given above refer to the unused product. As a result of mechanical application changes in the chemical and physical properties could not be excluded. The chemical and physical properties of the waste, strongly depend on the conditions of use. All indications made in this product information concerning composition, dangers, first aid, fire-fighting measures, accidental release measures, handling and storage, exposure control and personal protection, physical and chemical properties, stability and reactivity, toxicological information, ecological information, disposal information, transport information and regulatory information are only valid for the unused product and not for abrasive waste. It is the responsibility of the user to find out all the necessary information.