

**Section 1: Identification****1.1 Product identifier**Product Name: **Flexbead****1.2 Uses of the product**

-Blasting Cleaning

**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 Symbols and Hazard Identification: Not Foreseen**

Exposure by inhalation of fine powders in large quantities may produce symptoms called metal fume fever which lasts 24/48 hours,

SDS_15_16_17_18_28.06	22/05/2015	Updated identification points: 1, 3, 13
SDS_15-18_24_28200.05	30/6/2015	Added family 24 - Brakealloy
<b>Ident. Rev.</b>	<b>Date</b>	<b>Description</b>

**Section 3: Composition / Information on Ingredients****3.1 Fe > 80%****Iron-based smelted alloy:**

The stated components are in solid solution, not free.

The information reported at points 2.2, 3.3, and 8.1 refer to single elements component of alloy.

**3.2 Risk Phrases: Not Foreseen**  
**Safety Phrases: Not Foreseen**  
**C.A.S: No. 7439-89-6**  
**EINECS/ELINCS: No. 231-096-4**  
**INDEX: No. -----**

REACH Registration number of Iron 01-2119462838-24-0000

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

- Eye contact:** Flush carefully with water for a long time. If necessary obtain medical advice.
- Skin contact:** Wash contaminated skin carefully with soap and water. Obtain medical advice if irritation occurs.
- Inhalation:** Move exposed person to fresh air at once. Perform artificial respiration if necessary. Obtain medical attention as soon as possible.
- Ingestion:** Not normally considered a health hazard.  
Rinse mouth carefully with water.  
If any symptoms persist obtain medical advice.

**Section 5: Fire-Fighting Measures****5.1 FLAMMABLE: NO**

\*Special attention must be paid to process and/or systems that might raise clouds of very fine powder, Likely to be flammable in the presence of primers.  
Avoid ignition sources.  
To avoid electrostatic discharges, assure the electrical bonding of metallic tins and plants.

**5.2 Subject to Spontaneous Combustion:**

No

**5.3 Extinguishing Media:**

Dry powder extinguisher class D, dry sand.

**5.4 Protective Equipment:**

Wear suitable personal safety devices (protective clothing, shoes, helmet, gloves Glasses).

**Section 6: Accidental Release Measures****6.1 Personal precautions**

Prevent contact with skin and eyes by putting on the personal safety devices stated in point 8.2.

**6.2 Environmental precautions**

Keep product away from sewers, surface and underground waters and from the ground.

**6.3 Cleaning up method**

Do not use compressed air. Place in a container for recycling with small shovel.

**Section 7: Handling and Storage****7.1 Storage Information**

Covered, dry and naturally ventilated area.

Avoid placing material on the floor.

Do not stack more than 3 pallets high (for products packed in bags)

Do not stack more than 1 pallet high (for products packed in big-bags)

**7.2 Preservation Information**

Keep product closed in its original packing.

**Section 8: Exposure Controls / Personal Protection****8.1 Exposure limit values:**

TLV-TWA (ACGIH) 10 mg/m<sup>3</sup> (inhalable particles); 3mg/m<sup>3</sup> (respirable particles)

Ventilation: Work area must be sufficiently ventilated to keep concentration below the exposure limit.

**8.2 Occupational Exposure Controls****Personal protective controls**

**Respiratory protection:** Filter mask FFP2 (S)

**Protection of hands:** Leather gloves according to EN 388 Standard.

**Eye Protection:** Use safety glasses

**Personal Hygiene:** No smoking, eating, or drinking in the work area

**SAFETY DATA SHEET****Pictograms:****Section 9: Physical and Chemical Properties****9.1 Information on basic physical and chemical properties**

Physical state	Solid
Form	Powder
Color	Metallic
Apparent Density (g/cm <sup>3</sup> )	2.0 - 4.0
Melting Point(°C)	1530°C
Specific weight (g/cm <sup>3</sup> at 20 °C)	7.87
Explosive properties:	
Ignition temp in air (°C)	290 in layer 320 in cloud
Reaction temp in N <sub>2</sub> (°C)	200 in layer
Minimum explosive concentration in air (g/cm <sup>3</sup> )	120
Spontaneous flammability	NO
Water solubility	NO

**Section 10: Stability and Reactivity****10.1 Stability at usual conditions**

Stable

**10.2 Possibilities of decomposition**

In water: No

In acids: Yes

Acid contact may generate flammable gas.

**10.3 Materials to avoid**

Halogens, halides, strong concentrated acids, alkaline oxides.

**Section 11: Toxicological Information****11.1 Toxicity by different routes of exposure:****Inhalation** n.d. (\*)**Ingestion** n.d. (\*)**Skin-contact** n.d. (\*)**Eye-contact** n.d. (\*)**Section 12: Ecological Information****12.1 Ecotoxicity** n.d. (\*)**12.2 Mobility** n.d. (\*)**12.3 Persistence and Degradability** n.d. (\*)**12.4 Bioaccumulative potential** n.d. (\*)

(\*) See point 16.3

**Section 13: Disposal Considerations****13.1 Waste Treatment Methods:**

Disposal procedures according to the Regulation 2014/1357/EC (replacing annex III of the Directive 2008/98/EU and to the Decision 2014/955/EC amending Decision 2000/532/EC on the list of waste According to the Directive 2008/98/EC of the European Parliament and of the council.

**Section 14: Transport Information**

Road/ Rail/ Inland waters (ADR/RID/ADN)	Product not classified as dangerous
Maritime Transport (IMDG Code)	Product not classified as dangerous
Air Transport (ICAO T.I. / IATA)	Product not classified as dangerous

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

The substances is NOT subject to:

- Regulation (EC) n. Regulation (EC) No 2037/2000 of the European Parliament and of the Council Of 29 June 2000 on substances that deplete the ozone layer.
- Regulation (EC) n. 850/2004 of the European Parliament and of the Council of 29 April 2004 on Persistent organic pollutants;
- Regulation (EC) n. 689/2008 of the European Parliament and of the Council of 17 June 2008 Concerning the export and import of dangerous chemicals.

**15.2 Chemical Safety Assessment**

Yes it has been carried out for Iron.

**Section 16: Other information****Risk and Safety Phrases list:**

-Not foreseen

**Employee training advice:**

-Training on explosion risk for very fine metal powders

**Meaning of< n.d.> Initials (Points 11 and 12)**

-No specific test reports and/or data publication available at present.

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material, other than mentioned or in any process. The informations set forth herein is furnished free of charge but its intended to be used by persons having technical skills, and at their own discretion and risks. Because conditions of use are beyond our control, we make no warrenite4s expressed or implied, and assume no liability concerning use of this information. Nothing herein is to be taken as license to operate under or a recommendation to infringe upon any patents.