

Section 1: Identification**1.1 Product identifier**

Product Name: **Britebead “+”**

1.2 Uses of the mixture

- Sandblasting processes
- Resin filler, compound filler
- Counterweight
- Abrasive media (stone processing)
- Filler for brake liners compound

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
info@guyson.com

1.4 Telephone number: 518-587-7894

Section 2: Hazard Identification**2.1 Classification of the mixture****Classification according to Regulation (EC) n. 1272/2008 (CLP/GHS)**

Hazard classes and categories (Reg. 1272/2008) Skin Sens. 1; Carc.2; STOT RE. 2

Hazard statements (Reg. 1272/2008): H317; H351; H373

2.2 Label elements:**Labeling according to Regulation (EC) No 1272/2008 (CLP/GHS)**

According to Annex I (point 1.3.4) of Regulation n. 1272/2008, such mixtures do not require a label (metals in massive form/metal alloys).

2.3 Other hazards:

The substances in the mixture do not meet criteria for PBT or vPvB substances.

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|--------------------|-------------|-------------------------------------|
| SDS 27.06 | 20/05/2015 | Updated points: 2.2, 8.1, 13 and 16 |
| SDS 27.05 | 20/05/2015 | Updated point: 3 |
| Ident. Rev. | Date | Description |

Section 3: Composition / Information on Ingredients**3.1 Iron-based smelted alloy.**

Mixture: Nickel 9% (max w/w); Chrome 20% (max w/w) Manganese 2% (max w/w)
Iron 65-75% (w/w); Silicon 2,5% (max w/w)

Regulation n. 1272/2008

| EINECS N° | CAS N° | INDEX N° | Chemical name | Conc. (%w/w) | Hazard class And category code | Hazard statement |
|-----------|-----------|--------------|------------------|-----------------|---|------------------------------|
| 231-111-4 | 7440-02-0 | 028-002-01-4 | Nickel | ≤ 9 | Carc. 2 STOT RE 1 Skin Sens. 1 Aquatic Chronic 3 | H351 H372 H317 H412 |
| 231-157-5 | 7440-47-3 | - | Chrome | < 20 | - | - |
| 231-105-1 | 7439-96-5 | - | Manganese | < 2 | - | - |
| 231-096-4 | 7439-89-6 | - | Iron | 65-75 | - | - |
| 231-130-8 | 7440-21-3 | - | Silicon | <2,5 | - | - |

REACH Registration number (Iron): 01-2119462838-24-0000
REACH Registration number (Nickel): 01-2119438727-29-0000

| | |
|------------------|--------------------------------------|
| | REACH Pre-Registration number |
| Chrome | 05-2115258134-52-0000 |
| Manganese | 05-2115258131-58-0000 |
| Silicon | 05-2115258128-45-0000 |

Note: In this section, there is the indication of the considered substances classification. It includes the codes bound to Hazard statements assigned to the substances due to their safety, health and environmental risks.
The meaning of each hazard statement is reported in Section No. 16.

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

- Skin contact:** Wash contaminated skin carefully with soap and water. Obtain medical Advice if irritation occurs.
Cuts or abrasions should be treated promptly with thorough cleansing of the affected area.
- Eye contact:** Use general measures if eye irritation occurs. Do not rub eyes. Remove any contact Lenses. Flush eyes thoroughly with water, taking care to rinse from time to time Under eyelids. If irritation persists continue flushing for 15 minutes. Rinsing from time To time under eyelids. If discomfort continues, consult a physician.
- Inhalation:** Move the exposed person to fresh air at once. Preform artificial respiration if necessary. Obtain medical attention as soon as possible.
- Ingestion:** In case of significant oral intake (several mg of product) rinse mouth and give 200-300 ML of water to drink.
Do not induce vomiting.
Get medical attention if any discomfort continues.

4.2 Most important symptoms and effects, both acute and delayed

Nose-lung irritation may be symptoms occurring after inhalation of fumes/dusts/mists containing nickel.
Contact of the product with skin may produce dermatitis.
Inhalation of fine powders in large quantities may produce pneumoconiosis.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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

Suitable extinguishing media:

DO NOT USE:

Special protective equipment for fire-fighters:

Potential risk of exposition:

Particular practice:

WARNING

Dry powder extinguisher class D or dry sand.

Do not use halogenated extinguishing media.

Wear oxygen or air respirator and suitable safety devices (Suit, Shoes, hard hat, gloves and glasses)

Do not inhale dust and fume.

Special attention must be paid to processes and/or systems that might raise clouds of very fine powder likely to be Flammable in the presences of primers. Avoid ignition Sources. To avoid electrostatic discharges, assure the Electrical bonding of metallic tins and plants.

5.2 Special hazards arising from the substance or mixture

Material is non-flammable.

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5.3 Advice for fire-fighters

Wear self-contained breathing apparatus and suitable personal safety devices (protective clothing, Shoes, helmet, gloves, glasses).

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Avoid formation of dust.
Ensure adequate ventilation.
Avoid inhalation of dusts and fumes.
Wear suitable protective equipment.

For emergency personnel:

Avoid formation of dust
Ensure adequate ventilation
Avoid inhalation of dusts and fumes
Wear suitable protective equipment
Keep unprotected persons away.

6.2 Environmental precautions

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

6.3 Methods and materials for containment and cleaning up

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

Section 7: Handling and Storage

7.1 Precautions for safe handling

No not re use empty vessels before the have been cleaned or reconditioned.
Clear up industrial lines and vessels before working with ignition sources.
Before making operations of pouring off, assure yourself that inside the tank there aren't residuals of Incompatible substances.
In the matter of protective devices, consult Section No. 8 of this SDS.
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7.2 Conditions for safe storage, including any incompatibilities

Covered, dry and naturally-ventilated area.
Avoid placing material on the floor.
Keep away from food, feed and beverages
Keep away vessels from strong oxidizing agents.
Do not stack more than 3 pallets high (for products packed in drums)
Do not stack more than 1 pallet high (for products packed in big-bags)
The storage of the product in the stockpiling area must avoid soil percolation of accidental spillages.
Keep the product closed in its original packaging
It is advisable to use material with 6 months from its forwarding date.

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None**Section 8: Exposure Controls / Personal Protection****8.1 Exposure limit values:**

TLV-TWA (ACGIH, 2009):

Cr 0,5 mg/m³**Inorganic insoluble compounds for Cr; 0,01 mg/m³****Mn 0,2 mg/m³****Si 10 mg/m³****Ni 1,5 mg/m³****Fe 10 mg/m³****Inorganic insoluble compounds of Ni: 0,2 mg/m³****Ni: DNEL= 0,2 mg/m³ inhalable powders (metallic Ni and oxide NiO)**

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

8.2 Workplace Exposure Controls**Appropriate engineering controls:**

Use local ventilation to keep concentration below established threshold values.

Personal protective controls:**Respiratory protection:**

Filter mask FFP3 (S)

Local exhaust fumes ventilation (high efficiency: 90-95%)

Cyclones/Filters (to minimize atmospheric emission of dust)

Protection of hands:

Leather gloves according to EN 388 Standard.

Eye Protection:

Use safety glasses (EN 166), do not use contact lenses.

Skin Protection:

Tyvec suit

Environmental exposure controls:

Avoid release to the environment

Take precautions against spillage into public sewage or into water channels.

Dispose of material and its vessels in hazardous waste collecting area.

No smoking, eating, or drinking in the work area.

Pictograms:

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

| | |
|--|--|
| Physical state (20°C and 1013 hPa) | Solid. Irregular granules with different granulometry. |
| Color | Metallic |
| Melting Point(°C) | 1420-1550 |
| Initial boiling point and boiling range(°C) | Not applicable to solid that melts >300°C (column 2 Annex VII of the Reach Regulation) |
| Flammability | Non flammable |
| Relativity Density (g/cm3) | Approx. 4,5 |
| Specific weight (g/cm3 at 20°C) | Approx. 7,8 |
| Water solubility (mg/l) | No |
| Auto ignition temp | No Auto- ignition |
| Explosive properties | Non explosive. The substances does not contain chemical groups associated with explosive properties. |

Section 10: Stability and Reactivity

10.1 Reactivity

NA See section 9

10.2 Chemical stability

Under normal conditions of use, the product is stable.

10.3 Possibility of hazardous reactions

May generate hydrogen in contact with material of the point 10.5

10.4 Conditions to avoid

Avoid dust formation

10.5 Incompatible materials

Halogens, halides, strong concentrated acids, alkaline oxides.

Section 11: Toxicological Information

11.1 Routes of exposure: inhalation, ingestion and skin-contact.

Acute oral, dermal and inhalation toxicity:

| | |
|------------|----------------|
| Oral | Not classified |
| Dermal | Not classified |
| Inhalation | Not classified |

Risk of exposure:

| | |
|--|--|
| STOT Single exposure | Not Classified |
| Skin corrosion/irritation | Not classified |
| Respiratory sensitization | Not Classified |
| Skin sensitization | Skin sensitizer category 1 |
| Repeated dose toxicity and STOTE-RE | Classified in category 2 |
| Guidance values to assist in category 2 classification. inhalation (rat) dust/mist/fume: 0,02 < C < 0,2 [mg/litre/6h/day] | |
| Mutagenicity: | Not classified |
| Carcinogenicity: | Category 2 (CLP). Suspected of causing cancer. |
| Reproductive toxicity: | Not classified |

Section 12: Ecological Information

12.1 Toxicity

Acute Aquatic toxicity

Not classified

12.2 Chronic water toxicity

Not classified

12.3 Chronic fresh water sediment toxicity

Not classified

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12.4 Soil toxicity

Not classified

12.5 Persistence and degradability

Not classified

12.6 Bio accumulative potential

Not classified

12.7 Mobility in soil

Data lacking

12.8 Results of PBT and vPvB assessments

The mixture does not contain PBT or vPvB substances

Other adverse effects

The product is not expected to contribute to ozone depletion, ozone formation, global warming or acidification.

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.

Product disposal:

Dispose as hazardous waste, according to in force law. In virtue of the origin of the waste and of its present State, several European Waste Codes (EWC) can be applied.

Packaging disposal:

Dispose according to in force law. In virtue of the origin of the waste and of its present state, several European Waste Codes EWC can be applied.

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 or mixture**

The mixture 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

Type of revision: Every Section. This SDS cancels and substitutes every past SDS editions.
Consistent with Regulation (EC) N. 453/2010

The information reported in this Safety Data Sheet are based on the best scientific and toxicological Knowledge up to the date indicated above. This information is based on the bibliography below.

Reported data refers only to the pure substance.

The downstream user must follow in force laws, and make sure that the SDS information is up to date, Appropriate and complete in relation to the product utilization date and to the on-site specific use.

Description of the most important Hazard Statement used in section 2 & 3 of the present SDS

H317 May cause allergic skin reaction

H351 Suspected of causing cancer

H372 Causes damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated use

H412 Harmful to aquatic life with long lasting effects.

Safety Data Sheet based on:

- Regulation EC n. 1907/2006 (REACH) and subsequent amendments and additions
- Regulation EC n. 1272/2008 (CLP) and subsequent amendments and additions
- Regulation EC n. 453/2010

Laws and References:

- D.Lgs. 152/2006 (Italian Law)
- ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG Code (International Maritime Dangerous Goods Code).
- IATA (International Air Transport Association).
- SAX'S, (Dangerous Properties of Industrial Materials).
- ACGIH (2009) American Conference of Governmental Industrial Hygienists

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Abbreviations & Acronyms:

DNEL: Derived No-effect Level

EC 10: Effective Concentration to 10% of the test organisms

HC-5: The concentration without effect of 95% of the species= statistically derived environmental threshold value

LC10: Lethal concentration to 10% of test organisms

LC50: Lethal concentration to 50% of test organisms

LD50: Lethal Dose to 50% of test organisms

NOEC: No Observed Effect Concentration= highest concentration tested without effects

PBT: Persistent Bio accumulative and Toxic

PNEC: Predicted No-effects concentration

REACH: EC Regulation on Registration, Evaluation and Authorization of Chemical

STOT: Specific Target Organ Toxicity.

Skin Irritating Substance: A Substance that will lead to reversible damage to the skin following application
Of a test substance for up to 4 hours.

Respiratory Sensitizer Substance: A substance that if inhaled, will lead to hypersensitivity which is normally seen
As asthma, but other hypersensitivity reactions such as Rhinitis/ Conjunctivitis and alveolitis are also considered.

Skin Sensitizer Substance: A substance that will lead to an allergic response following skin contact.

TLV-TWA: Threshold Limit Value (TLV)- Time Weighted Average

vPvB: Very Persistent, Very Bio accumulative

The information reported in this SDS is up to date and extracted from legal references. However, this document shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. For additional information we invite you to visit the Chemical Database of Registered substances on ECHA's website (www.echa.eu)