

SAFETY DATA SHEET

Bauxite

Data of issue: 28/08/2018
Version: 2

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: Bauxite
Registration number REACH: Substance included in Annex V of Regulation (EC) 1907/2006 exempted from registration in accordance with Art. 2 paragraph 7 of that.
CAS Number: 92797-42-7
EC Number: 296-578-9

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

Identified uses: refractory, chemical industry

1.3 Details of the supplier of the safety data sheet

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1.4. Emergency telephone number:

European emergency telephone number: 112

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

The product is not classified as hazardous according to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments).

2.2 Label elements

Hazard pictograms: none
Signal word: none
Hazard statements: none
Precautionary statements: not applicable

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other hazards which do not result in classification:

In relation to the type of use you can generate airborne respirable crystalline silica. prolonged and massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly known as silicosis. The main symptoms of silicosis include coughing and difficulty breathing. Exposure at work to respirable crystalline silica dust should be monitored and kept under control.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

Product name: Bauxite
CAS number: 92797-42-7
EC number: 296-578-9
Concentration: > 70%
Substance UVCB (type 4)

This product contains quartz (respirable fine fraction) classified STOT RE 1 (H372) in concentrations lower than 1%. The full text of classification and hazard statements are listed in section 16.

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact: Immediately irrigate with water, holding the eyelids apart, for at least 10 minutes. Obtain medical attention.
Skin contact: Remove contaminated clothing. Wash skin with soap and water.
Inhalation: Remove patient from exposure, keep warm and at rest. If symptoms develop, obtain medical attention.
Ingestion: Do not induce vomiting. Wash out mouth with water. If symptoms develop, obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

The chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for physician: Symptomatic treatment. In the event that large quantities of product are ingested or inhaled, immediately contact a poison control centre.
Specific treatments: No specific treatment.

SECTION 5 FIREFIGHTING MEASURES

5.1 General

The product is not flammable. Use an extinguishing agent suitable for surrounding.

5.2 Special hazards arising from the substance or mixture

It is unknown the nature of the decomposition products.

5.3 Advice for firefighters

Special precautions for fire-fighters:

Move containers from fire area if this can be done without risk. Use water fire-fighters spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters:

Appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode must be worn. Clothing for fire-fighters (including helmets, protective boots and gloves), conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment (see Section 8) during the spillage removal operations. These directions are valid both for the workers to work which for emergency interventions.

6.2 Environmental precautions

Avoid dispersal of spilled material and contact with soil, waterways, sewage.

In case of seepage into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and materials for containment and cleaning up

Recycle if possible. Avoid dry sweeping and use a vacuum cleaner or cleaning systems with water spray to prevent airborne dust generation. Place waste in a container labeled waste. Use anti spark tools and explosion-proof equipment. Dispose of via a licensed waste disposal company.

6.4 Reference to other sections

See Sections 8 and 13 for further advice.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures: Avoid contact with eyes. Avoid prolonged skin contact. Avoid generating airborne dust. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Advice on general occupational hygiene:

Eating, drinking and smoking should be prohibited in areas where this material is occupational hygiene handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures..

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a cool, dry, well-ventilated place. Protect from moisture. Store in sealed original containers.

7.3 Specific end use(s)

Other than the uses described in Section 1.2 no other specific uses expected.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

The information in this section contains generic advice and guidance.

8.1 Control parameters

Respect the legal exposure limits in the workplace for any type of powder dispersed in the air (eg. Total dust, respirable dust, respirable crystalline silica dust).

Occupational exposure limits

Product/ingredient name	Exposure limit values
Respirable crystalline silica powder	Europe OEL TWA: 0.1 mg/m ³ , (inhalable fraction) 8h.

8.2 Exposure controls

Hygiene measures: Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Eye protection: Are advised to wear face shield and goggles with side protection conforming to EN 166 when handling product.

Hand protection: Wear suitable protective clothing, gloves.

Skin protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Respiratory protection: In case of exposure to concentrations of the substance above the limit values of exposure use a suitable protection device corresponding to the level of exposure known or predicted and comply with relevant EN (filtering facepiece certified UNI EN 149 or dust masks certified UNI EN 140).

Environmental exposure controls: Any emissions from ventilation or work process equipment should be checked to ensure compliance with the requirements of environmental protection legislation.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on fundamental physical and chemical properties

Physical state:	Solid grey - white
Odour:	Odourless.
Odour threshold:	Not applicable.
pH:	Not available.
Melting point/freezing point:	> 2000°C
Initial boiling point and boiling range:	not required for substances with a melting point > 300°C.
Flash point:	Not applicable to inorganic substance.
Evaporation rate:	Not applicable, solid.
Flammability:	Not applicable.
Upper/lower flammability or explosive limits:	Not applicable.
Vapour pressure:	not required for substances with a melting point > 300°C.
Vapour density:	Not applicable, inorganic solid.
Relative density:	3.0 – 3.5
Solubility (water):	negligible in water.
Partition coefficient octanol/water:	Not required for inorganic substances.
Auto-ignition temperature:	Not applicable.
Decomposition temperature:	Not applicable for substances with a melting point > 300°C.
Viscosity:	Not applicable, solid substance.
Explosive properties:	the substance doesn't contain chemical groups associated with explosive properties.
Oxidising properties:	The substance does not contain groups associated with oxidising properties.

9.2 Other information

No additional information.

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

The product is stable in normal conditions of use and storage.

10.3 Possibility of hazardous reactions

In the normal conditions of use and storage are unpredictable hazardous reactions

10.4 Conditions to avoid

At the best of our knowledge there are no conditions to be avoided

10.5 Materials to avoid

Acids.

10.6 Hazardous decomposition products

They do not produce hazardous decomposition products under normal conditions of storage and use.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

No specific product data is available.

Acute Toxicity

LC50 (Inhalation - vapor) substance: Not classified

LC50 (Inhalation - mist / dust) substance: Not classified

LD50 (Oral) substance: Not classified

LD50 (Dermal) substance: Not classified

Skin corrosion/irritation

Does not meet the classification criteria for this hazard class.

Serious eye damage/irritation

Does not meet the classification criteria for this hazard class.

Respiratory or skin sensitisation

Does not meet the classification criteria for this hazard class.

Germ cell mutagenicity

Does not meet the classification criteria for this hazard class.

Carcinogenicity

Does not meet the classification criteria for this hazard class.

Reproductive toxicity

Does not meet the classification criteria for this hazard class.

STOT-single exposure

Does not meet the classification criteria for this hazard class.

STOT-repeated exposure

Does not meet the classification criteria for this hazard class.

Crystalline silica can cause silicosis or other lung problems after prolonged exposure.

Aspiration hazard

Does not meet the classification criteria for this hazard class.

SECTION 12 ECOLOGICAL INFORMATION**12.1 Toxicity**

Bauxite is a natural product with low toxicity under normal conditions of use should not present any danger to the environment.

12.2 Persistence and degradability

Information not available

12.3 Bioaccumulative potential

Information not available

12.4 Mobility in soil

Information not available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No known significant effects or critical hazards.

SECTION 13 DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14 TRANSPORT INFORMATION**14.1 UN Number**

Not relevant.

14.2 UN proper shipping name

Not relevant.

14.3 Transport hazard class

Not relevant.

14.4 Packing group

Not relevant.

14.5 Environmental hazards

Not relevant.

14.6 Special precautions for user

Not relevant.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not relevant.

SECTION 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Bauxite is a substance found in nature and therefore has exemptions under the REACH Regulation.

Annex XVII - Restrictions placing on the market and use of certain dangerous substances, mixtures and Articles:

Not applicable.

Other UE regulations:

Non applicable.

Europe inventory:

All components are listed or exempted.

Black List Chemicals:

Not listed.

Priority List Chemicals:

Listed.

15.2 Chemical Safety Assessment

The substance is exempt from registration in accordance with Art. 2 paragraph 7 of Regulation (EC) 1907/2006, therefore it is not subject to the obligation of the chemical safety assessment.

SECTION 16 OTHER INFORMATION

This Information Sheet has been prepared in accordance with the Regulations 1907/2006 / EC, 830/2015 / EU and 1272/2008 / EC. Revision of the section 8, 11, 16.

Main bibliographic sources

Regulations (CE) 1907/2006 of the European Parliament (REACH)

Regulations (CE) 1272/2008 of the European Parliament (CLP)

Regulations (CE) 790/2009 of the European Parliament (I Atp. CLP)

Regulations (UE) 830/2015 of the European Parliament

Regulations (CE) 286/2011 of the European Parliament (II Atp. CLP)

Regulations (CE) 618/2012 of the European Parliament (III ATP. CLP)

Regulations (CE) 487/2013 of the European Parliament (IV ATP. CLP)

Regulations (CE) 944/2013 of the European Parliament (V ATP. CLP)

Regulations (UE) 605/2014 of the European Parliament (VI Atp. CLP)

Regulations (UE) 2015/1221 of the European Parliament (VII Atp. CLP)

European Parliament Regulation (EU) 2016/918 (VIII Atp. CLP)

European Parliament Regulation (EU) 2016/1179 (IX Atp. CLP)

Limits exposure to chemicals in the workplace:

• OEL EU: Direttive 2017/2389/UE; 2017/164/UE; 2009/161/UE; 2006/15/CE; 2004/37/CE; 2000/39/CE.

Full text of hazard statements and risk phrases

STOT RE 1: specific target organ toxicity - repeated exposure, category 1

H372: Causes damage to organs through prolonged or repeated exposure. Inhalation (lungs)

Classification and procedure used to derive it under the Regulation 1272/2008/CE

Classification according to Reg. 1272/2008/CE	Classification procedure
STOT RE (Category 1)	Calculation method*

* The calculation method has been applied conservatively considering the variability of the natural product.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.