

INFORMATION DATA SHEET

Fireclay bricks of increased contents of Al_2O_3

Date of first issue: 24.04.2017

Date of update: 20.04.2020

1. Identification of the products and of the company

1.1. Product identifier

Product name: **SUPERTON**
 - A40, Al40, Al42, Al42H, Al44, Al44-2

Grade: Fireclay bricks of increased contents of Al_2O_3

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

Identified uses: Structural lining of heating units
Uses advised against: Other than those mentioned above

1.3. Details of the supplier of the Safety Data Sheet

Identification of the company: Polska Ceramika Ogniotrwała Żarów Sp. z o.o.
 ul. Hutnicza 1, 58-130 Żarów
 Tel. +48 74 8 562 600
 Fax. +48 74 8 580 465
 e-mail: pco@pco.pl

Competent person responsible for the SDS: Head of R&D Department
 Tel.: 074 8562-645

1.4. Emergency telephone number

National contact in Poland: +48 112.

2. Hazards identification

The product is not classified as dangerous according to valid regulations. Danger can occur only if the material is transformed into dust by machine treatment or scrapping.

Dust - is a mixture of mainly aluminosilicates with a small but variable amount of crystalline silica. Health effects: Excessive exposure to this type may cause irritation of the eyes and upper respiratory tract.

3. Composition/information on ingredients

The table contains the components of dusts:

Name	No CAS	EC no	Content [%]	REACH registration No	Index No	Classification according to Regulation (EC) No 1278/2008 (CLP)
Aluminosilicates	12141-46-7	235-253-8	80-100	-	Not applicable	Not applicable
Crystalline silica	14808-60-7	238-878-4	1-10	-	Not applicable	Not applicable

4. First aid measures

4.1. Description of first aid measures

General Remove affected person from exposure. Remove contaminated clothing. In case of doubt, or when symptoms persist, seek medical advice.

After inhalation Dust - remove the victim to fresh air.

After eye contact Dust - rinse the eyes with plenty of water. Remove contact lenses, if they are present and it's easy to do it. If symptoms persist, contact an oculist.

INFORMATION DATA SHEET

Fireclay bricks of increased contents of Al_2O_3

Date of first issue: 24.04.2017

Date of update: 20.04.2020

After skin contact	Dust - remove contaminated clothes, wash skin with water and soap. Wash with plenty of water with soap. In the case of skin irritation medical attention is required.
---------------------------	---

After ingestion	Dust - Contact a doctor.
------------------------	--------------------------

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

Not available

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

Symptomatic treatment. Share the information data sheet doctor giving help.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: In case of fire extinguishing use suitable media for materials stored nearby.

Unsuitable extinguishing media: No data about not recommended extinguishing media.

5.2. Special hazards arising from the substance or mixture

Non-flammable product.

5.3. Advice for firefighters

Special protective equipment for firefighters: basic level of protection for chemical incidents provides clothing for fire-fighters (including helmets, protective boots and gloves).

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

In the case of a larger accident - to notify the fire brigade and the police – in Poland – (or the Emergency Telephone - 112).

For non-emergency personnel:

- Apply personal protective equipment.

For emergency personnel:

- Apply protective clothing listed in Section 8 on suitable and unsuitable materials, including respirators, gloves, pants and jacket type of work.

6.2. Environmental precautions

There is no known environmental hazard associated with this product even in contact with soil or surface water.

6.3. Methods and material for containment and cleaning up

The product is suitable for re-use if not damaged, otherwise the product may be disposed of in accordance with section 13. The product can be wetted with water to minimize the formation of dust floating in the air.

6.4. Reference to other sections

Use the control measures and personal protective equipment as described in Section 8. Follow with the released material according to the principles set in Section 13 – Disposal considerations.

7. Handling and storage

7.1. Precautions for safe handling

INFORMATION DATA SHEET

Fireclay bricks of increased contents of Al_2O_3

Date of first issue: 24.04.2017

Date of update: 20.04.2020

Avoid contact with eyes (dust). Avoid prolonged skin contact (dust). Follow the general principles of occupational health and safety of chemicals, good industrial practice and the manufacturer's recommendations. Wash hands before breaks and after work. Remove contaminated clothing and protective equipment before entering places for meals. Use only in well-ventilated areas. Additional information on hygiene measures are described in Section 8.

7.2. Conditions for safe storage, including any incompatibilities

Store product in a dry place without exposure to extreme temperatures that could damage the packaging material / pallet. Handle the product carefully with its smooth surfaces.

7.3. Specific end use(s)

Recommendations:

Not applicable

Industrial sector specific solutions:

Not applicable

8. Exposure controls/personal protection

8.1. Control parameters

The control parameters (applicable to the local law and limitation of the country in which the substance is used) for the following components of the mixture are known:

Dusts containing free (crystalline) silica from 2 to 50%

From the polish law occupational threshold limit value – **4 mg/m³ TLV** (inhalable fraction), **1 mg/m³ TLV** (respirable fraction).

DNEL values

Not available levels of DNEL

PNEC values

Not available concentration of PNEC

The employer is obliged to ensure, that the personal protective equipment, clothing and shoes used by workers have protective properties and shall ensure of their adequate washing, maintenance, repair and decontamination.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

General ventilation.

8.2.2. Individual protection measures, such as personal protective equipment

Wear protective clothing (dust respirator, goggles, protective gloves made of rubber). Work with the product in a well-ventilated places. Resistance of clothing and protective equipment for the chemicals should be ascertained with the respective supplier. Personal protective equipment must be approved by a specialist before handling.

Hygiene measures - Wash hands, face after working with a chemical product before eating, smoking and using the lavatory and at the end of the shift.

8.2.3. Environmental exposure controls

The emissions from ventilation or process equipment should be checked to confirm compliance with the requirements of environmental protection legislation. Use appropriate containers to prevent environmental contamination.

INFORMATION DATA SHEET*Fireclay bricks of increased contents of Al_2O_3*

Date of first issue: 24.04.2017

Date of update: 20.04.2020

9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	Light and dark beige bricks
Odour	Odourless
Odour threshold	Not applicable
pH	Not applicable
Melting point / freezing point	-
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	-
Solubility	Solubility in H ₂ O: insoluble Solubility in other solvents: practically insoluble
Partition coefficient:	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Viscosity	Not applicable
Explosive properties	Not applicable
Oxidising properties	Not applicable

9.2. Other information

No other important information

10. Stability and reactivity**10.1. Reactivity**

No hazardous reactions if the product is stored in accordance with occupational safety.

10.2. Chemical stability**10.3. Possibility of hazardous reactions**

The hazardous reactions do not occur in normal conditions of storage and use.

10.4. Conditions to avoid

Avoid dusting.

10.5. Incompatible materials

Avoid the following materials: not known.

10.6. Hazardous decomposition products

Under normal conditions, the product does not decompose.

INFORMATION DATA SHEET*Fireclay bricks of increased contents of Al_2O_3*

Date of first issue: 24.04.2017

Date of update: 20.04.2020

11. Toxicological information.**11.1 Information on toxicological effects**

Classification of the mixture is calculated on the basis of the hazardous components content. The mixture does not meet the classification criteria of mutagenicity, carcinogenicity and toxicity for reproduction, or the properties of acute toxicity. It can cause local irritation to the eyes, skin or mucosal.

12. Ecological information**12.1. Toxicity**

Not toxic to aquatic organisms.

12.2. Persistence and degradability

No data supported by experiments on the ability the mixture to degradation.

12.3. Bioaccumulative potential

It does not bioaccumulate in living organisms.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

The mixture does not contain any substances assessed to be a PBT or vPvB.

12.6. Other adverse effects

Significant effects or critical hazards are not known.

13. Disposal considerations**13.1. Waste treatment methods**

Do not dispose into drains. Avoid release to the environment. Waste code: 16 11 04. Not contaminated masses dispose of as non-hazardous solid waste in accordance with the requirements of national law. Disposable packaging dispose of in accordance with applicable regulations in this area.

14. Transport information**14.1. UN number**

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

INFORMATION DATA SHEET

Fireclay bricks of increased contents of Al_2O_3

Date of first issue: 24.04.2017

Date of update: 20.04.2020

14.6. Special precautions for user

Not applicable

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

Not applicable

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture European Union Law:

- REGULATION (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;
- REGULATION (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;
- COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH);
- REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals;
- COMMISSION DIRECTIVE 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work;
- COMMISSION DIRECTIVE 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC;
- COMMISSION DIRECTIVE 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC;
- COMMISSION DIRECTIVE (EU) 2017/164 of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU;
- Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.

15.2 Chemical Safety Assessment

The assessment of the mixture was not made.

16. Other information

The employer is obliged to inform all employees, who have contact with any hazards, about risks and personal protective equipment specified in that Informational Data Sheet.

- **Hazard statements (H):**

- H314 Causes severe skin burns and eye damage
- H315 Causes skin irritation
- H319 Causes serious eye irritation

INFORMATION DATA SHEET

Fireclay bricks of increased contents of Al_2O_3

Date of first issue: 24.04.2017

Date of update: 20.04.2020

- **Precautionary statements (P):**

- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 If on skin: Wash with plenty of water with soap.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

- **Abbreviations used:**

- vPvB – The substance is very persistent, very bioaccumulative and toxic
- PBT – The substance is persistent, bioaccumulative and toxic
- NDS – The threshold limit value
- PNEC – Predicted No Effect Concentration
- DNEL – The derived no-effect level
- ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road
- ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- RID – European Agreement concerning the International Carriage of Dangerous Goods by Rail

-The end-