

According to the REACH Regulation (EC) No. 1907/ 2006
 Date of issue: 01.08.2018

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ALUBLAST Aluminium Oxide

1. Identification of the substance / Preparation and Company:

1.1 Product identifier
 1.2 Commercial product name: **ALUBLAST Aluminium Oxide**
 REF 9003792 / 9003793 / 9003794 / 9003795 / 9003796 / 9003797 / 9003798 / 9003799
 Uses of the product: Mineral blasting abrasive for industrial use.

1.3 Details of the supplier of the voluntary product information

Manufacturer/Supplier: Henry Schein Inc. 135 Duryea Road Melville, NY 11747 / USA	Authorized EU Representative: Henry Schein Services GmbH Monzastrasse 2a 63225 Langen / Germany	Contact : cbdeurope@henryschein.com www.henryscheinbrand.com Tel: +49 6103 757 5000
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Responsible for the Safety Data Sheet: Regulatory Affairs Europe - cbdeurope@henryschein.com

1.4 **Emergency Number INTERNATIONAL: +49 (0)6132 84463** - GBK GmbH (24h 7d/w - 365d/a)

2. Hazards identification

2.1 Classification: Not applicable.
 2.2 Label elements: Does not require labelling under the CLP Regulation (EC) No. 1272/2008. But please take note of this product information.
 No risk of silicosis during application.
 Safety instructions: Possible dust exposure due to fine dust particles.
 2.3 Other hazards: Not known.

3. Composition/information on ingredients

Ingredients	NK (Mean values)	NK (Mean values)	EK (Mean values)	EK micro (Mean values)	EKR (Mean values)
Aluminium oxide (Al ₂ O ₃)	95.65%	95.77%	99.73%	99.69%	99.30%
Titanium dioxide (TiO ₂)	2.42%	2.79%	-/-	-/-	-/-

Chemical characterisation	EINECS	CAS No.	(1) REACH Registration No. (2) CLP Notification No	Classification according to CLP Regulation (EC) No. 1272/ 2008	
				Hazard classes Hazard categories	Hazard statements
Aluminium oxide (Al ₂ O ₃)	215-691-6	1344-28-1	1) 01-2119529248 -35-0010 2) 02 -2119709295-38-0000	-/-	-/-
Titanium dioxide (TiO ₂)	236-675-5	13463-67-7	(2) 02-2119879066 -28-0000	-/-	-/-

Substances listed on the so-called 'Candidate List of Substances of Very High Concern (SVHC) for authorisation' of the European Chemicals Agency (ECHA) are not intentional ingredients of this product. It is therefore not to be expected that those substances are present in quantities of > 0.1% in the product.

Hazardous substances: No dangerous ingredients.
 Substances with prescribe EC exposure limits: Does not contain substances with EC exposure limits.

4. First aid measures

Please also take note of sections 8 and 16 of this product information.

4.1 Description of first aid measures:
 General information: Consult a doctor in case of health disorders.

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After inhalation:	Provide the affected person with fresh air. Consult a doctor in case of irritation in of the respiratory tract.
After eye contact:	Remove contact lenses and rinse the eyes with open eyelids for 10 minutes under running water. If necessary, consult an ophthalmologist.
After skin contact:	Wash with water and rinse.
After swallowing	Rinse mouth and drink plenty of water. Do not induce vomiting. If you feel unwell, seek medical advice.
4.2 Most important symptoms and effects, both acute and delayed:	Not known.
4.3 Indication of any immediate medical attention an special treatment needed:	Treat symptomatically.

5. Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media:	Product does not burn. Match extinguishing measures to ambient situation.
Unsuitable extinguishing media:	Not known.
5.2 Special hazards arising from the product:	Not known.
5.3 Advice for fire fighters:	Match the firefighting measures to the environmental conditions.
Additional information:	Not known.

6. Accidental release measures

6.1 Personal precautions:	Avoid dust formation.
6.2 Environmental protection measures:	Not known.
6.3 Methods and materials for containment and cleaning up:	Pick up mechanically and dispose of properly.
6.4 Reference to other sections:	Refer to protective measures in section 7 and 8.
Additional information:	Not known.

7. Handling and storage

7.1 Precautions for safe handling:	For safety reasons, it is recommended to use a protective sieve during filling.
Information on safe handling:	Avoid dust information.
Information on fire and explosion protection:	No special fire protection measures are necessary.
Additional information:	Not known.
7.2 Conditions for safe storage, including any incompatibilities	
Information on storage conditions:	Always store product in dry conditions.
Requirements for storage rooms and containers:	No special requirements needed.
Storage class VCI:	LGK 13 (non-combustible solids)
7.3 Specific end uses:	Aluminium oxide is used to manufacture or to use as blasting or abrasive medium.

8. Limitation and monitoring of exposure/ personal protective equipment

8.1 Control parameters	
Occupational exposure limit values in the workplace and / or biological limit values	
Occupational Exposure Limits (OEL) in Germany for dusts	
Inhalable fraction (E)	10 mg/m ²
Respirable fraction (A)	1,25 mg/m ³
With exceeding factor 2 each, re. TRGS 900	
Community exposure limits	Country specific. Pleas inquire in individual cases.
8.2 Limitation and monitoring of exposure	

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Appropriate engineering controls:
 Technical measures and the application of suitable work processes have priority over the use of personal protective equipment.

Provide adequate ventilation. This can be achieved by local suction or general extraction.

Aluminium oxide is not a hazardous substance, thus only the general dust limit value applies.

Suitable assessment methods to verify the effectiveness of the protective measures taken include metrological and non-metrological determination methods as described in the Technical Rules for Hazardous Substances (TRGS) 4032 and BS EN 14042 “workplace areas, Guidelines for the implementation and application of processes for assessment of exposure to chemical and biological agents”.

Personal protective equipment: The use of personal protective equipment is dependent on the concentrations and quantity of hazardous substances in their execution in specific workplaces.

Respiratory protection: Normally, no personal respiratory protective equipment is necessary. In case of insufficient ventilation or exceeded workplace limits, a protective breathing mask should be worn (FFP filtering half mask depending on the existing concentration).

Hand protection: Glove material: Leather

Eye protection: Tight-sealing protective eyewear (dust-protection goggles) in accordance with EN 166:2001.

Body protection: With normal use, no body protection by half or full-body coverall and boots is required.

Information on industrial hygiene: Minimum standards for protective measures when handling working materials are listed in TRGS 500.

Do not eat, drink, smoke or take drugs while using this product. Avoid contact with skin, eyes and clothing.

Remove soiled or soaked clothing immediately.

Wash hands before breaks and at end of work.

Protect skin by using skin creams.

Environmental protection measures: See sections 6 and 7; no further action is required.

9. Physical and chemical characteristics

9.1 Information on basics physical and chemical properties

Appearance
 Appearance: angular
 Physical state: solid
 Colour: white / pink / brown
 Odour: odourless

Safety data:
 Explosion hazard: The product itself is not explosive; however, formation of explosive air/dust mixtures is possible

Lower explosion limit: not known
 Upper explosion limit: not known
 Vapour pressure: not relevant
 Specific gravity: approx. 3.9 to 4.1 g/cm³
 Flow time: not relevant
 Water solubility: insoluble in water
 pH value: not applicable
 Boiling point/range: not applicable
 Flash point: not determined as product is not flammable
 Melting point: approx. 2 000 °C
 Ignition temperature: not determined as product is not flammable

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The information about the explosion limits refers to Aluminium oxide. Please refer to the technical data sheet for other physical and chemical data.

9.2 Other information: None.

10. Stability and reactivity

10.1 Reactivity: Aluminium oxide is non-reactive and does not change with proper handling and storage.

10.2 Chemical stability: Aluminium oxide is chemically stable and does not change with proper handling and storage.

10.3 Possibility of hazardous reactions: No hazardous reactions known.

10.4 Conditions to avoid: No decomposition if used according to specifications.

10.5 Incompatible materials: No hazardous reactions known.

10.6 Hazardous decomposition products: No known hazardous decomposition products.

11. Toxicological information

11.1 Information on toxicological effects: According to current IFA reports the product contains silicosis-inducing, toxic and carcinogenic components. The indications given in section 8 of this product information must be observed.

Acute toxicity: No data on the product available.

Irritation: No data on the product available.

Corrosivity: No data on the product available.

Sensitisation: No data on the product available.

Repeated dose toxicity: No known toxicity of Aluminium oxide.

CMR effects (carcinogenic, mutagenic and toxic to reproduction): No carcinogenic effect according to IFA reports.

Summarised evaluation of the CMR properties: No known CMR properties.

Practical experience (relevant for classification and other observations): No data on the product available.

Carcinogenicity: No known carcinogenicity of Aluminium oxide.

Mutagenicity: No data on the product available.

Reproductive toxicity: No data on the product available.

Other information: Not known.

12. Environmental information

12.1 Toxicity: No known effects.

Ecotoxicity: For Aluminium oxide no environmental problems are to be expected when handled and used properly.

Fish toxicity: Harmful effects for aquatic organisms are not expected.

Aquatic invertebrates: Harmful effects for aquatic organisms are not expected.

Water plants: Harmful effects for aquatic organisms are not expected.

12.2 Persistence and degradability: Based on current experience, this product is inert and not degradable.

12.3 Bioaccumulation potential : No data available. Accumulation in biological materials is rather unlikely, as it is inert and insoluble.

12.4 Mobility in soil: Potential not known.

12.5 Results of PBT and vPvB assessment: Not relevant. The substances in this product do not meet the criteria for classification as PBT or vPvB.

12.6 Other harmful effects: Not known.

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13. Disposal considerations

13.1	Waste treatment methods: Product:	Aluminium oxide. If recycling is not possible, waste must be disposed of in compliance with national and local regulations. Confirm the exact waste code with the disposer.
	Waste Code according to European Waste Catalogue (EWC):	120117 waste blasting material other than those mentioned in 120116.
13.2	Packaging: Contaminates packaging: Cleaned packaging:	National and local regulations must be followed. Packaging with Alumina residues can be recycled. Packaging can be reused after being cleaned or recycled.

14. Transport information

Aluminium oxide is no dangerous good.

15. Regulatory information

15.1	Safety, health and environmental regulations / legislation specific for the product. EU regulations:	Aluminium oxide is not subject to the Regulation 722/2012/EU {ADI-Free).
	National regulations: Water hazard class:	Not hazardous to water, classification according to VwVwS, Annex 4.
	Technical instruction on air quality (TA-Luft):	Substances not mentioned by name.
	Hazardous Incident Ordinance (12. BImSchV [German Federal Immission Control Regulation]):	Substance not mentioned by name.
	Solvents Ordinance (31. BImSchV [German Federal Immission Control Regulation]):	Substances not mentioned by name.
	Chemicals Prohibition Ordinance: Relevant Technical Rules for Hazardous Substances:	Substances not mentioned by name. Contains no hazardous substances.
	Employment Restrictions:	Not known.
	Miscellaneous:	Aluminium oxide is not subject to the VOC Regulation.
	International regulations:	All Aluminium oxide ingredients are listed with TSCA, AICS, DSL (NDSL), NEPA and PICCS and registered with MITI / ENCS under 1-23.
15.2	Chemical safety assessment:	Not relevant.

16. Other information

Further applicable EC directives:	Not known.
Restrictions on use recommended by the manufacturer:	For industrial applicate only.

Other Information:
 The product information in this documentation is correct to the best of our knowledge at the time of printing. The information is intended to provide you with advice on the safe handling of the product mentioned in this product information for storage, processing, transport and disposal. The information cannot be applied to other products. If the product mentioned in this documentation is in anyway tampered with i.e. mixed with other materials, processed or undergoes processing, the information as supplied in this document no longer applies to the new product unless expressly stated otherwise.

Changes since the last version:

	2017-07-10 Revision
	2018-07-17 Advice Protective sieve
	2018-08-01 Regulation 722/2012/EU {ADI-Free}.

Literature and data sources:
 Regulations:
 REACH Regulation (EC) No. 1907/2006
 CLP Regulation (EC) No. 1272/2008

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Hazardous Substances Ordinance (GefStoffv)
Commission Decision 2000/532/EC (AW)
Transport Regulations according to ADR, RID and IATA
TRGS 900
VOC Regulation (OiemVOCFarbV)

Hazard statements, referred to in section 2 and 3 according 1D Regulation (EC) No. 1272/2008: None.

The above information is based on the present state of knowledge; however, this shall not constitute a guarantee of product properties and establishes no contractual legal rights. Existing laws and regulations must be strictly followed by the recipient or user of the blasting medium on their own responsibility.

Legend:

ADR	European agreement concerning the international carriage dangerous goods by road
AW/EWC	European Waste Catalogue
BimSchV	Regulation on the Implementation of the (German) Federal Immission Control Ordinance
CAS	Chemical Abstracts Service
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association -Dangerous Goods Regulations
PBT	persistent, bioaccumulative, toxic
RID	Regulations concerning the International Carriage of Dangerous Goods
TRGS	Technical I Rules for Hazardous Substances
TSCA	Toxic Substances Control Act
voc	Volatile Organic Compounds (VOCs)
vPvB	very persistent and very bioaccumulative
VwVwS	Administrative Regulation on Substances Hazardous to Water