



The SDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

**Bioclear Matrix Systems
Safety Data Sheet – Blasting Powder**

Aluminium Hydroxide SAFETY DATA SHEET
Revised 24-JUNE-2015

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

1.1 Product identifier

Product Name: ALUMINIUM HYDROXIDE

Synonyms: Aluminium trihydrate, aluminium hydrate, aluminium hydroxide, aluminum trihydroxide

1.2 Uses of the Product

Identified Uses: Dental Abrasive

Uses Advised Against: None known

1.3 Details of the Manufacturer/Distributor

Manufacturer/Distributor: Bioclear Matrix Systems

By Dr. David Clark

3802 South Warner Street, Suite A

Tacoma, WA 98409

USA

Product Information: Phone: 1-855-71-CLEAR (25327)

1.4 Emergency telephone number

020 8965 2913

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC 1272/2008)

Physical and chemical hazards: not classified





Human health: not classified
Environment: not classified

2.2 Label elements

Labelling according to Regulation (EC) 1272/2008

2.3 Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Product Ingredient name	%	CAS No	EC No	Classification Regulation (EC) No. 1272/2008 [CLP]
Aluminium hydroxide (ATH)	>99	21645-51-2	244-492-7	Not classified

REACH Registration number: 01-2119529246-39

CAS No: 21645-51-2

EC No: 244-492-7

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

In case of inhalation:

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

In case of irritation on skin contact:

Wash skin with soap and water. Get medical attention if irritation persists after washing.

In case of eye contact:

Make sure to remove any contact lenses from the eyes before rinsing. Rinse eye with water immediately. Get medical attention if any discomfort continues.

In case of discomfort after swallowing:





Rinse mouth thoroughly. Get medical attention if any discomfort continues.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: No specific symptoms noted.

Ingestion: No specific symptoms noted.

Skin contact: No specific symptoms noted.

Eye contact: No specific symptoms noted.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

This product is not flammable. Use fire extinguishing media appropriate for surrounding materials.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:

None under normal conditions

5.3 Advice for firefighters

Special fire-fighting procedures: No specific fire-fighting procedures given

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Follow precautions for safe handling described in this safety data sheet

6.2 Environmental precautions

The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

6.3 Methods for containment and clean up

Avoid dust formation. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Transfer to a container for disposal.





6.4 References to other sections

For personal protection see section 8. For waste disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling:

Avoid handling which leads to dust formation. Avoid inhalation of high concentrations of dust. Observe occupational exposure limits and minimize the risk of inhalation of dust.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

7.3 Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Country	Name	STD	TWA -8Hrsv	TWA -8Hrs	STEL - 15Min	Notes
Austria	ATH			10.0 mg/m ³	10.0 mg/m ³	A, E
Poland	ATH	NDS		2.5 mg/m ³		
Russia	ATH	ПДК		6.0 mg/m ³		Ф, 4
UK	ATH	WEL	4.0 mg/m ³	10.0 mg/m ³		

A = Aveolengängiger Anteil

E = Einatembare Fraktion

NDS = Najwyższe Dopuszczalne Stężenie

ПДК = Величина

Ф = аэрозоли преимущественно фиброгенного действия

4 = класс - умеренно опасные.

WEL = Workplace exposure limit

NOTE: To request language / country specific SDS please e-mail sds@lkabminerals.com

8.2 Exposure controls

Protective equipment:



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Engineering measures:

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust.

Respiratory equipment :

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Wear dust masks in dusty areas.

Hand protection:

No specific hand protection noted, but gloves may still be advisable.

Eye protection:

Wear dust resistant safety goggles where this is a danger of eye contact.

Other protection:

Provide eyewash station.

Hygiene measures:

Wash hands at the

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Powder, dust
Color:	White
Odor:	Odorless
Solubility:	Insoluble in water
Relative density:	2.3 – 2.6pH-
Value:	9

9.2 Other safety information

Not relevant





SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No specific reactivity hazards associated with this product.

10.2 Chemical stability

Stable under normal temperature conditions.

10.3 Possibility of hazard reactions

Not relevant.

10.4 Conditions to avoid

No specific conditions are likely to result in a hazardous situation.

10.5 Incompatible materials

Materials to avoid:

No specific, or groups of, materials are likely to react to produce a hazardous situation

10.6 Hazardous decomposition products

None under normal circumstances

SECTION 11: TOXICOLOGICAL INFORMATION

The information below relates to Sodium Bicarbonate in its pure form.

11.1 Information on toxicological effects

Other health effects:

This substance has no evidence of carcinogenic properties.

Acute toxicity:

No data available

Acute toxicity (Oral LD50):

5000 mg/kg rat





Acute toxicity (Dermal LD50):
Not relevant

Acute toxicity (Inhalation LC50):
Not relevant

Inhalation:
Dust in high concentrations may irritate the respiratory system.

Ingestion:
May cause discomfort if swallowed.

Skin contact:
Powder may irritate skin.

Eye contact:
Particles in the eyes may cause irritation and smarting.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Not regarded as dangerous for the environment. Not considered toxic to fish.

12.2 Persistence and degradability

The product is not readily biodegradable

12.3 Bioaccumulative potential

The product is not bioaccumulating.

12.4 Mobility in soil

Not relevant, due to the form of the product.

12.5 Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6 Other adverse effects

None known.





SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements

SECTION 14: TRANSPORT INFORMATION

Road transport notes: Not classified.

Rail transport notes: Not classified.

Sea transport notes: Not classified.

Air transport notes: Not classified.

14.1 UN Number

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.2 UN proper shipping name

Not classified for transportation.

14.3 Transport hazard class(es)

Not classified for transportation.

14.4 Packaging group

Not classified for transportation.

14.5 Environmental hazards

Environmentally hazardous substances / marine pollutant: no

14.6 Special precautions for user:

Not classified for transportation.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

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





Approved code of practice:

Classification and labelling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.

Guidance notes:

Workplace Exposure Limits EH40.

EU Legislation:

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 Regulations (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, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2 Chemical Safety Assessment

Not applicable. No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision date: 24/06/2015

Revision: 4

Document no: 12-04INT,15-06

Risk phrases in full: NC – not classified

Disclaimer

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End of MSDS

