



# Compounding Solutions

2B Minerals S.r.l.

Legal and administrative seat: Viale Europa, 81 – 41011, Campogalliano (MO), ITALY  
Phone +39 059 527059 Fax +39 059 527633 E-mail: lionexp@yahoo.it  
Initial capital € 10.000 paid in full - Tax Reference Number, VAT Payer Number and Number in the Register of Enterprises 02364590352

## **SAFETY DATA SHEET (IN COMPLIANCE WITH REGULATION 1907/2006/EC – REACH – art. 31)**

NAME OF SUBSTANCE: **Calcinated alumina**

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Revision date: February 2015

### **1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**

#### **1.1 Product identifier**

Trade name: 2B-ALUKAL-E, 2B-ALUMET-M, Allumina Ventilata, Allumina Superfine, AC44-45, 2B-ALUMET- M5, 2B-ALUKAL-T, 2B-ALUKAL-T5, 2B-ALUKAL-T2, Allumina Calcinata S10, 2B-ATAB45-FP.

Chemical name: alumina

CAS number 1344-28-1

EC number 215-691-6

INDEX number -

Classification and labelling number -

REACH registration number 01-2119529248-35-xxxx

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

Relevant identified uses of the substance or mixture: Industrial uses: ceramics, refractory products, abrasives and polishing products, friction materials, electrofusion welding of products in the steel and glass industry, filler of resins, rubbers and varnishes, production of abrasive materials.

Uses advised against: Not foreseen.

#### **1.3 Details of the supplier of the safety data sheet**

Name: 2B Minerals S.r.l.

Address: Viale Europa, 81, 41011 - Campogalliano (MO)

Phone: +39 (0)59 527059

Fax: +39 (0)59 527633+39 (0)59 527633

E-mail: [quality@2bminerals.it](mailto:quality@2bminerals.it)

#### **1.1 Emergency telephone number**

2B Minerals S.r.l: +39 (0)59 527059 (during business hours)

## **2. HAZARD IDENTIFICATION**

### **2.1 Classification of the substance or mixture**

Classification according to Regulation 1273/2008/EC – CLP: not classified product  
Classification according to Directive 67/548/EEC not classified product

### **2.2 Label elements**

Not subject to labelling

### **2.1 Other hazards**

Product is inorganic substance and not subject to PBT or vPvB criteria.

## **3. COMPOSITION / INFORMATION ON INGREDIENTS**

### **3.1 Chemical characteristics**

Chemical name: alumina >99%

Chemical formula: Al<sub>2</sub>O<sub>3</sub>

CAS number 1344-28-1

EC number 215-691-6

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### **4. FIRST AID MEASURES**

#### **4.1 Description of first aid measures**

- |                     |  |
|---------------------|--|
| 4.1.1 Skin contact: | Wash with water and soap.  |
| 4.1.2 Eye contact:  | Rinse with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.                                     |
| 4.1.3 Ingestion:    | Rinse mouth with water.  |
| 4.1.4 Inhalation:   | Movement of the exposed individual from the area to fresh air is recommended. Seek medical attention in case of breathing difficulties |

#### **4.1 Most important symptoms and effects both acute and delayed**

No acute and delayed effects associated with exposure to the product are known.

#### **4.2 Indication of any immediate medical attention and special treatment needed**

Taking into consideration the product characteristics no immediate or specific medical attention is necessary.

### **5. FIRE-FIGHTING MEASURES**

#### **5.1 Extinguishing media**

Non-combustible. In case of fire apply the measures provided for the other, present materials.

#### **5.2 Special hazards arising from the substance or mixture**

None.

#### **5.3 Advice for fire-fighters**

Non-combustible. In case of fire apply the measures provided for the other, present materials.

### **6. ACCIDENTAL RELEASE MEASURES**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Avoid airborne dust generation. Provide appropriate ventilation.

#### **6.2 Environmental precautions**

No special requirements.

#### **6.3 Methods and material for containment and cleaning up**

Avoid dry sweeping and use water spraying or vacuum cleaning systems to prevent airborne dust generation.

### **7. HANDLING AND STORAGE**

#### **7.1 Precautions for safe handling**

Avoid airborne dust generation. Provide appropriate exhaust ventilation at places where airborne dust is generated. In case of insufficient ventilation, wear suitable respiratory protective equipment, meeting the requirements of the relevant (EC) standards. The removal of product using wet removing systems or machines with vacuum system is recommended. If you require advice on safe handling techniques, please contact the supplier. Do not eat and drink at the workplace. After the application of the product, before moving to the rooms where the meals are eaten, wash hands and remove contaminated clothes and personal protective equipment.

#### **7.2 Conditions for safe storage, including any incompatibilities**

Technical measures / precautions: Minimise airborne dust generation and prevent wind dispersal during loading and unloading. Keep containers closed and store products packaged in bags so as to prevent accidental bursting.



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### 7.3 Specific end use(s)

In order to obtain the information on specific end uses, please contact the supplier.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### 8.1.1 Occupational exposure limits

Crystalline silica dust concentration - below 1% (ACGIH 2010):

CAS NUMBER	EINECS NUMBER	Name	Type	Limits (TLV –TWA)
--	--	Total dust	inhalable fraction	10 mg/m <sup>3</sup>
--	--	Total dust	respirable fraction	3 mg/m <sup>3</sup>

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls:

Provide appropriate exhaust ventilation and filtration at places where airborne dust is generated. Observe the limits regulating emissions to air.  
Wash hands before break and after work is finished. Remove dusted clothing and wash it before wearing again. See also: Section 7.

#### 8.2.2 Individual protection measures, such as personal protective equipment

Respiratory protection: In case of exposure to airborne dust concentrations higher than limits, wear respiratory protective equipment with protection factor P2, meeting the requirements of the relevant (EC) standards

Eye protection: Wear safety glasses with side-shields, meeting the requirements of the relevant (EC) standards.

Hand protection: Not necessary under standard conditions.

Skin protection: Not necessary under standard conditions.

#### 8.2.3. Environmental exposure controls

Observe the limits for air emissions.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance and colour: Solid, granulate or dust, white

Odour: Odourless

PH: 8 - 10 (water suspension 400 g/l at 20°C))

Melting point: 1600 – 2050°C

Boiling point / range: Not applicable

Flash point: Not applicable

Flammability: (solids / gas): Not applicable

Flammable / explosive limits: Not applicable

Vapour pressure: Not applicable

Vapour density: Not applicable

Evaporation rate: Not applicable

Relative density: 2,7 – 3,94 g/cm<sup>3</sup>

Solubility in water: Insoluble

Partition coefficient n-octanol/water: Not applicable

Autoignition temperature: Not applicable

Viscosity: Not applicable

Explosive properties: Does not explode

Oxidising properties: Does not oxidise

### 9.2 Other information

Shape of granulate: Slightly angular



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### **10. STABILITY AND REACTIVITY**

Reactivity	Not reactive
Chemical stability	Chemically stable
Possibility of hazardous reactions	No hazardous reactions
Conditions to avoid	Dust generation
Incompatible materials	No particular reactions
Hazardous decomposition products	None

### **11. TOXICOLOGICAL INFORMATION**

#### **11.1 Information on toxicological effects**

Acute toxicity:	Not available
Skin corrosion/irritation:	No effects have been observed
Serious eye damage/irritation:	Light harmfulness due to mechanical friction
Respiratory or skin sensitisation:	No effects have been observed
Germ cell mutagenicity:	No effects have been observed
Carcinogenicity:	No effects have been observed
Reproductive toxicity:	No effects have been observed
STOT - single exposure:	No effects have been observed
STOT - repeated exposure:	Effects in relation to respiratory system (lung fibrosis - silicosis)
Inhalation consequences:	Not applicable
Possible routes of exposure:	Inhalation, ingestion, skin / eye contact

Impact on health.

No adverse effect on human health is observed, provided that common industrial hygiene rules are followed.

### **12. ECOLOGICAL INFORMATION**

There are no data on ecotoxicity of the product. It is not possible to predict the detailed and negative environmental effects.

### **13. DISPOSAL CONSIDERATIONS**

#### **13.1 Waste treatment methods**

Waste from residues / unused products: Remove to landfill site in compliance with applicable regulations. Material should be covered to prevent dust generation. Where possible, recycling is preferable to disposal.

Observe applicable regulations (Legislative Decree No. 152/06 and successive regulations).

Packaging: Observe applicable regulations on materials suitable for recycling. Avoid airborne dust generation (from residues in packaging!) and use suitable engineering controls and personal protection measures.

Observe applicable regulations (Legislative Decree No. 152/06 and successive regulations).

### **14. TRANSPORT INFORMATION**

Product is not dangerous under the international transport regulations.

### **15. REGULATORY INFORMATION**

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

Regulation 1907/2006 – REACH	
SVHC substances - art. 50 (Candidate List)	Not applicable
Permits (Annex XIV)	Not applicable
Limitations (Annex XVII)	Not applicable

#### **15.2 Chemical safety assessment**

Not applicable



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### **16. OTHER INFORMATION**

Abbreviations and acronyms:

Not applicable

Not available

#### **Third party materials:**

If the materials not produced or supplied by 2B Minerals S.r.l. are used jointly or instead of materials produced or supplied by 2B Minerals S.r.l., it is the customer's responsibility to obtain all necessary information and technical data directly from the producer or supplier of the material. The 2B Minerals company assumes no liability for the use of its products in conjunction with the materials supplied by the other suppliers.

#### **Liability**

The provided data are in conformity with the state of the art and experience of 2B Minerals S.r.l. They are considered accurate and reliable as of the date indicated in the heading. However, we cannot guarantee their total accuracy, reliability and completeness. It is the user's responsibility to endeavour to obtain complete information on the particular use of the product.