

# CECCHI GUSTAVO & C.

Via M. Coppino 253 - 55049 Viareggio (Lu) ITALY

tel. +39 0584 383694 fax +39 0584 395182

www.cecchi.it info@cecchi.it

ADDITIVE NO FIRE POWDER - SAFETY DATA SHEET - october 2018



## ADDITIVE NO FIRE POWDER

### 1. Identification of substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Substance name Aluminum hydroxide  
Commercial product name **ADDITIVE NO FIRE POWDER**

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

Additive, flame retardant, filler, pigment, ground chemical, health care, personal care, viscosity adjustor

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

Company Cecchi Gustavo & C. srl - Via M. Coppino 253,  
55049 Viareggio (LU) ITALY www.cecchi.it - info@cecchi.it  
Information in case of emergency: +39 0584 383694 - info@cecchi.it  
From monday to friday office hours 8:30 – 12:30, 14:00 – 18:30

#### 1.4 Emergency telephone number

+39 0584 383694

### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according Regulation (EC) No 1272/2008 [CLP]

Not classified

Classification according Directive 67/548/EEC or Directive 1999/45/EC

Not classified

#### 2.2 Label elements

Hazard pictogram None  
Signal word None  
Hazard statement None  
Precautionary statements (recommended) None

#### 2.3 Other Hazards

Prolonged or excessive contact may cause mechanical irritation of the respiratory tract.

### 3. Composition/information on ingredients

#### 3.1 Substances

Chemical name	CAS No	EC No	REACH-Registration-No	Weight [%]	H-Phrases	R-Phrases
Aluminum hydroxide	21645-51-2	244-492-7	01-2119529246-39-0012	>99,5	None	None

#### 3.2 Mixtures

This product is a substance

### 4. First aid measures

#### 4.1 Description of first aid measures

Inhalation Move to fresh air. Consult a physician if necessary.  
Skin contact Mechanical (dry) removal. Subsequent rinsing with water.  
Eye contact Intensive rinsing with water. Consult a physician if necessary.  
Ingestion Rinse out mouth and give plenty of water to drink. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed None

4.3 Indication of any immediate medical attention and special treatment needed None

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### 5. Firefighting measures

#### 5.1 Extinguishing media

*Suitable extinguishing media*

Product itself is non-combustible. Use extinguishing measures appropriate to the source of the fire.

*Unsafe extinguishing media*

None

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

None

#### 5.3 Advice for firefighters

None

### 6. Accidental release measures

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

Avoid dust formation. In case of exposure to high levels of airborne dust, wear a personal respirator in compliance with national legislation.

#### 6.2 Environmental precautions

No special environmental precautions required.

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

Take up mechanically. Dispose of absorbed material in accordance within the regulations.

#### 6.4 Reference to other sections

See chapter 8 and 13

### 7. Handling and storage

#### 7.1 Precautions for safe handling

*Advice on safe handling*

Avoid dust formation. No special handling advice required.

*Advice on protection against fire and explosion*

Not explosive. No special measures necessary.

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

Keep container tightly closed. Store in dry place.

#### 7.3 Specific and use(s)

See product information.

### 8. Exposure controls/personal protection

#### 8.1 Control parameters

Observe the local by-laws in terms of fine dust:

(e.g.: OSHA-PEL value 15 mg/m<sup>3</sup> total dust, 5 mg/m<sup>3</sup> for respirable dust;

ACGIH-TWA value 10 mg/ m<sup>3</sup>, TRGS 900 10 mg/m<sup>3</sup> respirable, 3 mg/m<sup>3</sup> alveolar )

*Exposure limits for consumers*

Not applicable

#### 8.2 Exposure controls

*Technical controls*

Avoid dust formation. Appropriate local exhaust ventilation recommended.

*Personal protection controls*

*Respiratory protection*

Avoid inhaling the dust. In case of insufficient ventilation and exposure to high levels of airborne dust, wear suitable respiratory equipment. Recommended filter type: Filter P2 (acc. to DIN 3181)

Protective gloves are recommended

*Glove material:* Nitril rubber

*Layer thickness:* 0.11 mm

*Breakthrough time:* > 480 Min

*Eye protection*

Safety glasses with side-shields (frame goggles) are recommended

*Skin protection*

No special protective equipment required

*Hygiene measures*

Do not eat, drink or smoke when handling. Observe standard industrial hygiene practice.

*Environmental exposure controls*

No special exposure controls required.



**9. Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

<i>Physical state:</i>	Powder
<i>Color:</i>	White
<i>Odor:</i>	Odorless
<i>pH:</i>	8 - 9 at 20 °C (saturated solution)
<i>Solubility in water:</i>	0,00009 g/l at 20 °C
<i>Density:</i>	2,4 g/cm <sup>3</sup> (20 °C)
<i>Vapor pressure :</i>	Not applicable
<i>Boiling point:</i>	2980 °C
<i>Melting point:</i>	Decomposes before melting
<i>Flash point :</i>	Not applicable
<i>Flammability:</i>	Not flammable
<i>Auto ignition:</i>	Not auto flammable
<i>Explosive properties:</i>	Non explosive
<i>Oxidizing properties:</i>	No
<i>Thermal decomposition :</i>	>200 °C
<i>Octanol-Water coefficient:</i>	Not applicable

**9.2 Other information**

None

**10. Stability and reactivity**

**10.1 Reactivity**

No known, if used properly.

**10.2 Chemical stability:**

Stable under normal conditions. Loss of water and decomposition starts at temperature >200°C

**10.3 Possibility of hazardous reactions**

No hazardous reactions known.

**10.4 Conditions to avoid**

High temperature > 200°C

**10.5 Incompatible materials**

Soluble in strong acids and caustic solutions.

**10.6 Hazardous decomposition products:**

None

**11. Toxicological information**

**11.1 Information on toxicological effects**

No bioaccumulation potential

Acute effects	Value	Species	Type	Test substance
<i>Oral</i>	>2000 mg/kg bw	rat	acute	Aluminum hydroxide
<i>Dermal</i>	Not applicable.			
<i>Inhalation</i>	LC50: 7,6 mg/l	rat	acute	Analogue
<i>Skin corrosion</i>	Not corrosive			
<i>Skin irritation</i>	Not irritating			
<i>Eye irritation</i>	Not irritating			
<i>Sensitisation</i>	Non sensitising			
Repeated dose toxicity	Value	Species	Type	Test substance
<i>Oral</i>	NOAEL: 30mg/kg bw/day	rat	chronic	Analogue
<i>Inhalation</i>	NOAEL: 70mg/m <sup>3</sup>	rat	subchronic	Analogue
<i>Cancerogenity</i>	There is no evidence of any carcinogenic effects			
<i>Mutagenity</i>	There is no evidence of any mutagenic effects			
<i>Reproductive toxicity</i>	There is no evidence of any reproductive toxicity effects			

**12. Ecological information**

12.1 Toxicity	Value	Species	Type	Test substance
<i>Fish toxicity</i>	LC50: >100 mg/l	Salmo trutta	acute	Aluminum hydroxide
<i>Invertebrate toxicity</i>	EC50: >100 mg/l	Daphnia Magna	acute	Analogue
<i>Algae toxicity</i>	EC50: >100 mg/l	Selenastrum capricornutum	acute	Analogue
<i>Micro-organism toxicity</i>	Study scientifically unjustified			
<b>12.2 Persistence and degradability</b>	Not applicable for inorganic substances			
<b>12.3 Bioaccumulative potential</b>	Not applicable			
<b>12.4 Mobility in soil</b>	Not applicable			
<b>12.5 Results of PBT and vPvB assessment</b>	As a result of the PBT/vPvB assessment it is found that the product does not meet the criteria for classification as PBT/vPvB.			
<b>12.6 Other adverse effects</b>	None known.			

**13. Disposal considerations**

<b>13.1 Waste treatment methods</b>	Reuse or recycle when possible. Dispose of in accordance with local regulations.
<i>Spoiled packages</i>	Packaging has to be emptied entirely. Recycling of used packaging is recommended. Local by-laws must be observed.

**14. Transport information**

<b>14.1 UN number</b>	according to UN shipping name, see item 14.2
<b>14.2 Un proper shipping name</b>	
<i>ADR / RID</i>	NOT CLASSIFIED AS "DANGEROUS GOODS"
<i>IMDG</i>	NOT CLASSIFIED AS "DANGEROUS GOODS"

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*IATA-DGR / ICAO-TI*

NOT CLASSIFIED AS "DANGEROUS GOODS"

**14.3 Transport hazard class(es)**

None

**14.4 Packaging group**

None

**14.5 Environmental hazards**

None

**14.6 Special precautions for user**

See item 6 to 8

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

No hazardous goods

### 15. Regulatory information

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

### EU-Regulations and directives

Regulation (EC) No 2037/2000 (Ozon Depleting Substances)	Not applicable
Regulation (EC) No 850/2004 (Persistent Organic Pollutants)	Not applicable
Regulation (EC) No 689/2008 (Export and import of dangerous substances)	Not applicable
Directive 2002/95/EC (RoHS)	Not applicable
Directive 2002/96/EC (WEEE)	Not applicable
Directive 1999/13/EC (VOC)	Not applicable
Restrictions according TITLE VIII of the Regulation (EC) No 1907/2006 (REACH)	None

### National legislations

Water pollution class	Not classified
Classification according VbF	Not classified

### International Inventories

Chemical name	TSCA	DSL	ENCS	IECSC	KECL	PICCS	AICS
Aluminum hydroxide	listed	listed	1-17	listed	KE-00980	listed	listed

## 15.2 Chemical safety assessment

Not applicable

## 16. Other information

Employment restrictions	None
Issuer of MSDS	
Contact	Nabaltec AG, Analysenzentrum
	phone 0049 9431 53298
	fax 0049 9431 53289

This information is based on our present knowledge. This shall not constitute a guarantee for any specific product featured and shall not establish a legally valid contractual relationship.

### Exposure scenarios

As a result of the hazard assessment and PBT/vPvB assessment it is found that SUBSTANCE Aluminum hydroxide (CAS# 21645-51-2) does not meet the criteria for classification as hazardous (according to Directives 67/548/EEC and 1272/2008/EC) nor is it considered to be a PBT/vPvB. An exposure assessment and the subsequent step of risk characterisation is not required.

### Key-Legend

ACGIH	American Conference of Governmental Industrial Hygienist
OSHA	Occupational Safety & Health Administration
PEL	Permissible exposure limit
TWA	Time Weighted Average
TRGS	Technische Regeln für Gefahrstoffe
NOEL	No Observed Effect Level
NOAEL	No Observed Adverse Effect Level
LC	Letal Concentration
EC	Effective Concentration
ADR	Accord européen sur le transport des marchandises dangereuses par route
IATA-DGR	International Air Transport Association-Dangerous Goods Regulations
ICAO-TI	International Civil Aviation Organization-Technical Instructions
IMDG	International Maritime Code for Dangerous Goods
MARPOL	Maritime Pollution Convention
RID	Règlement international concernant le transport des marchandises dangereuses par chemins de fer
RoHS	Restriction of (the use of certain) hazardous substances
WEEE	Waste Electrical and Electronic Equipment
VOC	Volatile Organic Compounds
VbF	Verordnung über brennbare Flüssigkeiten