# ADVANCED MATERIALS

### **Safety Data Sheet**

#### **SB-432**

According to WHS Act and the Work Health and Safety Regulations (theWHS Regulations), Section 274.

New Zealand HSNO Chemical Classification

GHS (Globally Harmonized System)

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### SECTION 1: Identification: Product identifier and chemical identity

1.1. Product identifier

Product Name: SB-432

Pure substance/mixture Substance

Aluminum Hydroxide

**CAS Number** 21645-51-2

Weight-% 100

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

Recommended Use Flame retardant

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company: J.M. Huber Corporation

3100 Cumberland Boulevard, Suite 600

Atlanta, GA 30339 USA Tel: +1 678 247-7300

**Internet** www.hubermaterials.com

E-mail hubermaterials@huber.com

**1.4. Emergency telephone** CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

**number** In Asia Pacific: +65 6491 9100

### **SECTION 2: Hazard(s) Identification**

### 2.1. Classification of the substance or mixture

Physical Hazards Not classified

Health Hazards Not classified

Environmental Hazards Not classified

Symbols/Pictograms None

Signal Word None

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Hazard Statements None

**Precautionary Statements** 

**Prevention** Employ good industrial hygiene practice

Do not handle until all safety precautions have been read and understood

Do not breathe dust

Wear protective gloves/protective clothing/eye protection/face protection

Response IF ON SKIN: Wash with plenty of soap and water

Storage Store away from incompatible materials

**Disposal** Dispose of contents/containers in accordance with local regulations

Additional Information: None

Hazards not otherwise classified Not classified.

(HNOC)

### **SECTION 3: Composition and Information on Ingredients**

Pure substance/mixture Substance

Chemical Name	CAS Number	Australia (AIIC)	New Zealand	Hazardous Substances	TSCA: United States	EU REACH registration number	Weight-%
Aluminum Hydroxide	21645-51-2	Y	Y	Not classified	А	01-2119529246- 39	100

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

**General Advice** When in doubt or if symptoms are observed, get medical advice. Ensure that

medical personnel are aware of the material(s) involved and take precautions to

protect themselves.

Eye Contact In case of eye contact, remove contact lens and rinse immediately with plenty of

water, also under the eyelids, for at least 15 minutes.

**Skin Contact** Wash with plenty of soap and water.

**Inhalation** If breathing is difficult, remove victim to fresh air and keep at rest in a position

comfortable for breathing.

**Ingestion** Rinse mouth thoroughly with water.

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**Aspiration hazard** Not an expected route of exposure.

Notes to Physician Treat symptomatically.

4.2. Most important symptoms and effects, both acute and

delayed

Signs and symptoms may include coughing, gasping, choking and difficulty

breathing.

**4.3. Indication of any immediate** Treatment should be symptomatic and supportive. medical attention and special

treatment needed

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

### Suitable Extinguishing

Media

Water spray (fog). Foam. Dry chemical. Carbon dioxide (CO2).

#### **Unsuitable Extinguishing Media**

None known.

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

None known.

#### 5.3. Advice for firefighters

#### Special protective

### equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

#### Fire-fighting measures

In case of fire and/or explosion do not breathe fumes.

### **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protection recommended in Section 8.

Avoid dust formation. Keep unauthorized personnel away.

For non-emergency personnel Keep unauthorized personnel away.

For emergency responders Keep unauthorized personnel away. Use personal protection recommended in

Section 8.

**6.2. Environmental precautions** Avoid runoff to waterways and sewers.

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6.3. Methods and material for containment and cleaning up

Large Spill: Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust Small Spill: Vacuum or sweep material and place in a

disposal container

6.4. Reference to other sections Section 8: Exposure controls and personal protection. See Section 13 for

additional waste treatment information.

### **SECTION 7: Handling and storage**

7.1. Precautions for safe

Minimize dust generation and accumulation

handling

Provide local exhaust ventilation

Handle in accordance with good industrial hygiene and safety practice

**7.2. Conditions for safe storage**, Store away from incompatible materials **including any incompatibilities** Keep container tightly closed and dry

**7.3. Specific end use(s)** Flame retardant.

### **SECTION 8: Exposure controls and personal protection**

### 8.1. Control parameters

### Occupational exposure limits

Aluminum Hydroxide

ACGIH TLV/TWA 8-hr: 1 mg/m³ (respirable fraction)

OSHA TWA: 15 mg/m³ Total Dust 5 mg/m³ Respirable Dust

8.2. Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas

Provide a good standard of controlled ventilation (10 to 15 air changes per hour)

Personal protective equipment

**Eye/Face Protection** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection** Wear suitable protective clothing.

**Hand protection** For operations where prolonged or repeated skin contact may occur, impervious

gloves should be worn.

Respiratory Protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

Thermal hazards None known.

Hygiene Measures Follow general hygiene considerations recognized as common good workplace

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practices

The worker should wash daily at the end of each work shift, and prior to eating,

drinking, smoking, etc

**Environmental Exposure** 

**Controls** 

Dispose of in accordance with local regulations

### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Appearance:

Physical State Solid Powder Odor Odorless

Odor Threshold No information available

pH: 8.4 - 10.2 5% Water suspension Melting point / Freezing point ca  $300 \,^{\circ}\text{C}$  / 572 °F (101.3 kPa) 101.3 kPa

Freezing Point

Flash Point

Evaporation Rate
Flammability (solid, gas)
Flammability (solid, gas)

Not applicable

Not applicable

Not applicable

Not applicable

Upper flammability limit: -Lower flammability limit: --

Vapor PressureNot applicableVapor DensityNot applicableVapor DensityNot applicableDensityNo data availableRelative Density2.4 g/cm3, 20° CWater Solubility0.00009 g/l at 20 °CSolubility in other solventsNo information available

Partition coefficient
Autoignition Temperature
Decomposition Temperature
Viscosity
Not applicable
392 °F (200 °C)
Not applicable.
Not applicable
Not applicable

**Explosive Properties** None

Oxidizing Properties Not applicable

Particle Size No information available

VOC Content (%) Not applicable

#### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

Not applicable

#### 9.2.2. Other safety characteristics

Not applicable

### **SECTION 10: Stability and reactivity**

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10.1. Reactivity None

**10.2. Chemical stability** Stable under normal conditions

10.3. Possibility of hazardous

reactions

None under normal processing

**10.4. Conditions to avoid** Incompatible materials

**10.5. Incompatible materials** Strong acids

10.6. Hazardous decomposition None known

products

### **SECTION 11: Toxicological information**

General Information Users are advised to consider national Occupational Exposure Limits or other

equivalent values.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Aluminum Hydroxide

**Oral LD50** > 2000 mg/kg Rat

Inhalation LC50 Rat > 2.3 mg/l (Al2O3) Aerosol Maximum attainable concentration

IARC Not Listed

Acute Toxicity Based on available data, the classification criteria are not met

**Chronic Toxicity** Based on available data, the classification criteria are not met.

**Chronic Effects** Based on available data, the classification criteria are not met.

**Respiratory Sensitization** No information available

Serious eye damage/eye

irritation

Based on available data, the classification criteria are not met

**Skin Corrosion/Irritation** Prolonged or repeated contact may dry skin and cause irritation

**Skin Sensitization**Based on available data, the classification criteria are not met Not a skin sensitizer

Guinea pig

Mutagenicity in vitro Not genotoxic in bacteria and mammalian cell systems.

in vivo Mutagenicity (micronucleus test) Rat Negative (weight of evidence

approach)

**Germ cell mutagenicity** No information available.

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Based on available data, the classification criteria are not met. **Reproductive Effects** 

**Reproductive Toxicity** Based on available data, the classification criteria are not met.

This product does not contain any carcinogens or potential carcinogens as listed Carcinogenicity

by OSHA, IARC or NTP.

Specific target organ toxicity -

Single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity -

Repeated exposure

Based on available data, the classification criteria are not met.

Mixture versus substance

information

No information available

Information on Likely Routes of Exposure

Inhalation Avoid inhalation of the product

Inhalation of dust may cause irritation of the respiratory system

Ingestion Ingestion is not a likely route of exposure

Avoid prolonged or repeated contact with skin Skin

Avoid contact with eyes **Eyes** 

Dust contact with the eyes can lead to mechanical irritation

**Aspiration hazard** Not an expected route of exposure.

#### 11.2. Information on other hazards

11.2.1. Endocrine disrupting This product does not contain any known or suspected endocrine disruptors

properties

11.2.2. Other information Not applicable

### **SECTION 12: Ecological information**

12.1. Toxicity Not considered to be harmful to aquatic life

**Aluminum Hydroxide** 

12.2. Persistence and

WGK Classification (AwSV) 5220 WGK: nwg

degradability

The methods for determining biodegradability are not applicable to inorganic

substances.

**12.3. Bioaccumulative potential** Not likely to bioaccumulate.

Partition coefficient Not applicable

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**Bioconcentration factor** 

(BCF)

Not available.

**12.4. Mobility in soil**No information available.

12.5. Results of PBT and vPvB

assessment

This substance does not meet the criteria for classification as PBT or vPvB.

12.6. Endocrine disrupting

properties

This product does not contain any known or suspected endocrine disruptors

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Disposal Methods Disposal should be in accordance with applicable regional, national and local laws

and regulations.

Contaminated Packaging Empty containers should be taken to an approved waste handling site for recycling

or disposal.

Waste codes Waste codes should be assigned by the user based on the application for which

the product was used

**Aluminum Hydroxide** 

European Waste Catalog 060299

WGK Classification (AwSV) 5220 WGK: nwg

### **SECTION 14: Transport information**

### Mode of Transportation (Road, Water, Air, Rail)

Not regulated **TDG** -Canada Not regulated DOT Not regulated **ADR** Not regulated RID Not regulated **ADN** Not regulated **IATA** Not regulated IMDG/IMO **ICAO** Not regulated

14.1. UN number or ID number None

14.2. UN proper shipping name None

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14.3. Transport hazard class(es) None

14.4. Packing group None

14.5. Environmental hazards No

14.6. Special precautions for Not applicable

user

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

### **SECTION 15: Regulatory Information**

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

#### **Global Inventories**

Pure substance/mixture Substance

Chemical Name	CAS Number	Australia (AIIC)	Canada (DSL)	China (IECSC)	EU REACH registrati on number	EC No	Japan	S. Korea (KECL)	Mexico	-	Philippine s (PICCS)	Taiwan	TSCA: United States
Aluminum Hydroxide	21645-51- 2	Y	Υ	Y	01-211952 9246-39	244-492-7	(1)-17 (ENCS);	KE-00980	Y	Y	Y	Υ	Α

Legend

X / Y: Complies ; A: Active ; - / N: Exempt / Not Listed

### **SECTION 16: Other information**

Reason for Revision According to WHS Act and the Work Health and Safety Regulations (theWHS

Regulations), Section 274. New Zealand HSNO Chemical Classification.

GHS Classification This product is not classified as hazardous according to the UN GHS guideline

and labeling is not required

Hazards identification

Physical Hazards Not classified

Health Hazards Not classified

Environmental Hazards Not classified

Symbols/Pictograms None

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Signal Word None.

Hazard Statements None.

**Training Advice** Do not handle until all safety precautions have been read and understood.

Abbreviations and acronyms IARC (International Agency for Research on Cancer)

IATA (International Air Transport Association)
IMDG (International Maritime Dangerous Goods)

IUCLID (International Uniform Chemical Information Database) WHMIS (Workplace Hazardous Materials Information System)

DOT (Department of Transportation)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

TWA (Time-Weighted Average)

CLP (The Classification, Labeling and Packaging of Substances and Mixtures Regulation (EC

1272/2008))

PPE (Personal Protection Equipment)

NIOSH (National Institute for Occupational Safety and Health)

TDG (Transport of Dangerous Goods) Canada

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)

RQ (Reportable Quantity) (RQ/% in mixture)

STEL (Short Term Exposure Limit)
TLV® (Threshold Limit Value)
DNEL (Derived No Effect Level)

SVHC (Substances of Very High Concern) BOD (Biochemical oxygen demand) COD (Chemical oxygen demand)

ICAO (International Civil Aviation Organization)
IMDG (International Maritime Dangerous Goods)

ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

RID (Agreement Concerning the International Carriage of Dangerous Goods by Rail)

SCBA (Self-Contained Breathing Apparatus) Positive Pressure

PNEC (Predicted No Effect Concentration) GHS (Globally Harmonized System) TSCA (Toxic Substances Control Act)

**Disclaimer** 

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**End of Safety Data Sheet**