# SAFETY DATA SHEET



**SB-30** 

MOL No. 2009-68Standards for Classification and Labeling of Chemical Substances and Safety Data Sheet (SDS)

Issue Date 12/May/2022 **Revision Number** 1.3.1 Print Date 31/Aug/2022

Page 1 of 8

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

A. Product name **SB-30** 

Pure substance/mixture Substance

Aluminum Hydroxide

**CAS Number** 21645-51-2

Weight-% 100

B. Recommended use and Limitations on use

**Recommended Use** Flame retardant

None known Uses advised against

C. Supplier information

**Company Name** J.M. Huber Corporation

3100 Cumberland Boulevard, Suite 600

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

hubermaterials@huber.com E-mail

Internet www.hubermaterials.com

**CHEMTREC Contact person** 

+1 800 424 9300 International +1 703 527 3887 **Emergency phone number** 

## Section 2: HAZARDS IDENTIFICATION

### A. Hazard category/Classification

**Physical Hazards** Not classified

**Health Hazards** Not classified

**Environmental Hazards** Not classified

### B. Warning label items including precautionary statement

**Label Elements** 

**SB-30** 

Issue Date 12/May/2022 **Revision Number** 1.3.1 Print Date 31/Aug/2022

Page 2 of 8

None Symbols/Pictograms

**Signal Words** None

**Hazard Statements** None

**Precautionary statement** 

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

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

Storage Store away from incompatible materials

Disposal Dispose of contents/containers in accordance with local regulations

**Additional Information:** None.

C. Other hazards not included in the hazard category criteria (e.g. dust explosion hazard)

None known

# **Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Substance Pure substance/mixture

Chemical Name	CAS Number	S. Korea (KECL)	Korean GHS Classification	Weight-%
Aluminum Hydroxide	21645-51-2	KE-00980	Not classified	100

## **Section 4: FIRST AID MEASURES**

A. In case of eye contact Rinse with water. Get medical attention if irritation develops and persists.

B. In case of skin contact Wash off with soap and water. Get medical attention if irritation develops and

persists.

C. In case of inhalation Move to fresh air. Call a physician if symptoms develop or persist.

D. In case of swallowing Rinse mouth. Get medical attention if symptoms occur.

E. Note to physician Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

**SB-30** 

Issue Date 12/May/2022 **Revision Number** 1.3.1 Print Date 31/Aug/2022

Page 3 of 8

A. Suitable (and unsuitable) extinguishing media

Suitable extinguishing

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

media

Unsuitable extinguishing

None known

media

B. Specific hazards arising from the chemical (example: hazardous combustion products)

None known **Explosion hazard:** 

### C. Specific methods of fire-fighting

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In the event of fire and/or explosion do not breathe fumes. Move container from fire area if it can be done without risk.

## Section 6: SPILLAGE, ACCIDENTAL RELEASE MEASURES

- A. Personal precautions, protective equipment and emergency measures Ensure adequate ventilation. Avoid dust formation. See section 8 for more information.
- B. Environmental precautions Not considered to be harmful to aquatic life. Avoid discharge into drains, water courses or onto the ground.
- C. Methods and materials for containment and cleaning up Vacuum or sweep material and place in a disposal container.

## Section 7: HANDLING AND STORAGE

#### A. Precautions for safe handling

In case of exposure to environments exceeding the occupational exposure limit, wear a respirator in compliance with national legislation.

### B. Conditions for safe storage (including any incompatibilities)

Keep container tightly closed in a dry and well-ventilated place

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

A. Exposure limit values, biological limit values, etc

Aluminum Hydroxide

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

**OSHA** TWA: 15 mg/m3 Total Dust 5 mg/m<sup>3</sup> Respirable Dust

**B. Engineering Controls** 

**SB-30** 

Issue Date 12/May/2022 **Revision Number** 1.3.1 Print Date 31/Aug/2022

Page 4 of 8

**Engineering Measures** Ensure adequate ventilation, especially in confined areas

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

C. Personal protective equipment

 Eye protection If contact is likely, safety glasses with side shields are recommended. Hand protection For prolonged or repeated skin contact use suitable protective gloves.

 Body protection Wear suitable protective clothing.

**Hygiene Measures** Always observe good personal hygiene measures, such as washing after handling

the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** Solid Powder

Odor Odorless

**Odor Threshold** No information available

8.4 - 10.2 5% Water suspension :Ha ca 300 °C / 572 °F (101.3 kPa) **Melting point / Freezing point** 5396 °F (2980 °C) 101.3 kPa Initial boiling point

**Flash Point** Not applicable **Evaporation Rate** Not applicable Not applicable Flammability (solid, gas) **Upper flammability limit:** No data available Lower flammability limit: No data available **Vapor Pressure** Not applicable **Vapor Density** Not applicable **Relative Density** 2.4 g/cm3, 20° C

Insoluble **Water Solubility** 

Solubility in other solvents No information available **Partition coefficient** No information available

**Autoignition Temperature** Not applicable **Decomposition Temperature** 392 °F (200 °C) Not applicable **Viscosity** Kinematic viscosity No data available.

**Explosive Properties** None

**Oxidizing Properties** Not applicable

**VOC Content (%)** Not applicable

# **Section 10: STABILITY AND REACTIVITY**

A. Stability and hazardous reaction potential

Stability Stable under normal conditions **HUBER** 

# Safety Data Sheet

**SB-30** 

Issue Date 12/May/2022 **Revision Number** 1.3.1 Print Date 31/Aug/2022

Page 5 of 8

**Hazardous reaction** 

potential

None known

B. Conditions to avoid (e.g. static discharge, shock or Vibration, etc) Avoid creating dust. Incompatible materials.

- C. Incompatible materials Strong acids
- **D.** Hazardous decomposition products No hazardous decomposition products are known.

# **Section 11: TOXICOLOGICAL INFORMATION**

A. Information on likely routes of exposure

 Mouth Not an expected route of exposure

Dust contact with the eyes can lead to mechanical irritation Eyes Prolonged skin contact may cause temporary irritation. Skin

B. Information on health hazards

Aluminum Hydroxide

> 2000 mg/kg Rat Oral LD50

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

Aluminum Hydroxide

Not Listed **IARC** 

**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

Non-irritant Rabbit

Skin Corrosion/Irritation Non-irritant Rabbit

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

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.

**SB-30** 

Issue Date 12/May/2022 **Revision Number** 1.3.1 Print Date 31/Aug/2022

Page 6 of 8

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

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

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

Specific target organ toxicity -

Single exposure

Not classified.

Specific target organ toxicity -

Repeated exposure

No information available.

Mixture versus substance

information

No information available.

# **Section 12: ECOLOGICAL INFORMATION**

A. Ecotoxicity

Hazardous to the aquatic Not classified

environment, acute hazard Avoid runoff to waterways and sewers

Hazardous to the aquatic

environment, long-term

hazard

Not classified Avoid runoff to waterways and sewers

- B. Persistence/degradability No data available
- C. Bioaccumulative potential No data available
- D. Mobility in soil No data available
- E. Other adverse effects No data available

## Section 13: DISPOSAL CONSIDERATIONS

#### A. Method of disposal

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.

B. Disposal considerations (including disposal of contaminated containers or packaging) Disposal should be in accordance with applicable regional, national and local laws and regulations

# **Section 14: TRANSPORT INFORMATION**

**SB-30** 

Issue Date 12/May/2022 **Revision Number** 1.3.1 Print Date 31/Aug/2022 Page 7 of 8

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

**ADR** Not regulated RID Not regulated **ADN** Not regulated **IATA** Not regulated IMDG/IMO Not regulated **ICAO** Not regulated

14.1. UN number None

14.2. UN proper shipping name None

14.3. Transport hazard class(es) None

14.4. Packing group None

14.5. Environmental hazards No

14.6. Special precautions for Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

# **Section 15: REGULATORY INFORMATION**

#### **National Regulations**

Aluminum Hydroxide

21645-51-2 **CAS Number** Weight-% 100 Korean GHS Classification Not classified

#### Other domestic and foreign regulations

#### **Global Inventories**

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

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

**SB-30** 

Issue Date 12/May/2022 Print Date 31/Aug/2022 Revision Number 1.3.1
Page 8 of 8

# **Section 16: OTHER INFORMATION**

#### A. Source of Information

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) TSCA (Toxic Substances Control Act) GHS (Globally Harmonized System)

B. Issue Date 12/May/2022 Print Date 12/May/2022

C. Number of revisions and Date 1.3.1 of most recent revision

#### D. Other

Prepared by Huber Engineered Materials Global Regulatory Affairs

email: regulatory.affairs@huber.com

**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**