SAFETY DATA SHEET



FIRE RETARDANT ADDITIVES

SB-30

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

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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 J.M. Huber Corporation **Company Name** 3100 Cumberland Boulevard, Suite 600 Atlanta, GA 30339 USA Tel: +1 678 247-7300 hubermaterials@huber.com E-mail

Internet www.hubermaterials.com

Contact personCHEMTRECEmergency phone number+1 800 424 9300 International +1 703 527 3887

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

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Symbols/Pictograms	None
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
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.
C. Other hazards not included i	n the hazard category criteria (e.g. dust explosion hazard) None known

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure	substance/mixture	
IUIC	Substance/mixture	

Substance

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

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A. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	None known

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

Explosion hazard: None known

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

OSHA

TLV/TWA 8-hr: 1 mg/m³ (respirable fraction) TWA: 15 mg/m³ Total Dust 5 mg/m³ Respirable Dust

B. Engineering Controls

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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 equipme	nt
• 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

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

clothing and protective equipment to remove contaminants.

Physical State

	Powder
Odor	Odorless
Odor Threshold	No information available
pH:	8.4 - 10.2 5% Water suspension
Melting point / Freezing point	ca 300 °C / 572 °F (101.3 kPa)
Initial boiling point	5396 °F (2980 °C) 101.3 kPa
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not applicable
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
Water Solubility	Insoluble
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition Temperature	Not applicable
Decomposition Temperature	392 °F (200 °C)
Viscosity	Not applicable
Kinematic viscosity	No data available.
Explosive Properties	None
Oxidizing Properties	Not applicable

Solid

VOC Content (%)

Not applicable

Section 10: STABILITY AND REACTIVITY

A. Stability and hazardous reaction potential Stability Stable under normal conditions

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Hazardous reaction None known potential

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

C. Incompatible materials Strong acids

A. Information on likely routes of exposure

MouthEyes

D. Hazardous decomposition products No hazardous decomposition products are known.

Section 11: TOXICOLOGICAL INFORMATION

Dust contact with the eyes can lead to mechanical irritation

Not an expected route of exposure

• Skin	Prolonged skin contact may cause temporary irritation.
B. Information on health hazard <u>Aluminum Hydroxide</u> Oral LD50 Inhalation LC50	Is > 2000 mg/kg Rat Rat > 2.3 mg/l (Al2O3) Aerosol Maximum attainable concentration
Aluminum Hydroxide 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	Non-irritant Rabbit
Skin Corrosion/Irritation	Non-irritant Rabbit
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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Reproductive Effects	Based on available data, the classification criteria are not met.
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 environment, acute hazard	Not classified 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

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

ADR RID ADN IATA IMDG/IMO ICAO	Not regulated Not regulated Not regulated Not regulated Not regulated 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 user	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	
CAS Number	21645-51-2
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	Y	A

Legend

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

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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) 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 Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) <l< th=""></l<>

B. Issue Date	12/May/2022
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C. Number of revisions and Date 1.3.1 of most recent revision

D. Other

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End of Safety Data Sheet