

SAFETY DATA SHEET

SB-632

MoEL's Public Notice No. 2016-19 Standards for Classification and Labeling of Chemical Substances and Safety Data Sheet (SDS)

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Section 1: PRODUCT AND COMPANY IDENTIFICATION

- A. Product nameSB-632Pure substance/mixtureSubstanceAluminum Hydroxide
CAS Number
Weight-%21645-51-2
100B. Recommended use and Limitations on use
Recommended UseFlame retardant
 - Uses advised against None known
- C. Supplier information

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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

Symbols/Pictograms None

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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 bazards not included in the bazard category criteria (e.g. dust explosion bazard)		

C. Other hazards not included in the hazard category criteria (e.g. dust explosion hazard) None known

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure 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

A. Suitable (and unsuitable) extinguishing media

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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

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

B. Engineering Controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas Provide a good standard of controlled ventilation (10 to 15 air changes per hour)

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C. Personal protective equipment

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

VOC Content (%)

Not applicable

Section 10: STABILITY AND REACTIVITY

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

Hazardous reaction

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potential

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

C. Incompatible materials Strong oxidizing agents

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

Section 11: TOXICOLOGICAL INFORMATION

A. Information on likely routes • Mouth • Eyes • Skin	of exposure Not an expected route of exposure Dust contact with the eyes can lead to mechanical irritation 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.
Reproductive Effects	Based on available data, the classification criteria are not met.

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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	Not regulated
RID	Not regulated
ADN	Not regulated
ΙΑΤΑ	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated

14.1. UN numberNone14.2. UN proper shipping nameNone14.3. Transport hazard class(es)None14.4. Packing groupNone14.5. Environmental hazardsNo14.6. Special precautions for
userNot applicable

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

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 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	EC No	EU	Australia	Canada	China	Japan	S. Korea	Mexico	New	Philippine	Taiwan	TSCA:
	Number		REACH	(AIIC)	(DSL)	(IECSC)	-	(KECL)		Zealand	s (PICCS)		United

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			on										
			number										
Aluminum	21645-51-	244-492-7	01-211952	Y	Y	Y		KE-00980	Y	Y	Y	Y	A
Hydroxide	2		9246-39				(ENCS);						
y							ISHL						

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

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
	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	21/Feb/2023
	21/Feb/2023
C. Number of revisions and Date of most recent revision	1.3.2
D. Other	

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End of Safety Data Sheet