Safety Data Sheet



SB-36

Japan-JIS Z 7253:2012 Occupational Safety and Health Act Globally Harmonized System (GHS)

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1. PRODUCT AND COMPANY IDENTIFICATION		
Product Name:	SB-36	
Pure substance/mixture	Substance	
Aluminum Hydroxide CAS Number Weight-%	21645-51-2 100	
Recommended Use	Flame retardant	
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	
Emergency Telephone Number	CHEMTREC: +1 800 424 9300 or International +1 703 527 3887 +81 03-3560-7316	

2. HAZARD IDENTIFICATION

Japan GHS Classification Physical Hazards	Not classified
Health Hazard	Not classified
Environmental Hazards	Not classified
GHS label elements Symbols/Pictograms	None
Signal Word	None
Hazard statements	Based on available data, the classification criteria are not met
Precautionary Statements Prevention	Do not handle until all safety precautions have been read and understood. Employ good industrial hygiene practice Do not breathe dust
Response	IF exposed or concerned: Get medical advice/attention Wash with plenty of soap and water

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Storage	Store away from incompatible materials. Keep in a dry place
Disposal	Dispose of contents/container to an approved waste disposal plant
Additional Information:	None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture Substance

Chemical Name	CAS Number	Japan	Japan GHS Classification	TSCA: United States	REACH registration number	Weight-%
Aluminum Hydroxide	21645-51-2	Y	Not classified	Y	01-2119529246-39 -0016	100

4. FIRST AID MEASURES

If inhaled:	Remove victim to fresh air and keep at rest in a position comfortable for breathing
IF ON SKIN:	Wash with plenty of soap and water Take off contaminated clothing and wash before reuse
IF IN EYES:	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes Call a physician if irritation develops and persists
If swallowed:	Rinse mouth thoroughly with water
Self-Protection of the First Aide	r Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves
Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing	Water spray (fog)
Media	Foam
	Dry chemical
	Carbon dioxide (CO2)

Unsuitable Extinguishing Media Do not use water jetstream

Special hazards arising from the Avoid dust formation substance or mixture

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Fire-fighting measures	In case of fire and/or explosion do not breathe fumes
	Water mist may be used to cool closed containers
	Keep unauthorized personnel away

Special Protective Equipment for Firefighters

Wear self-contained breathing apparatus and protective suit

6. ACCIDENTAL RELEASE MEASURES

Protective Equipment and Precautions for Firefighters	Avoid dust formation Ensure adequate ventilation Use personal protection recommended in Section 8 Avoid contact with eyes and skin. Wear suitable personal protection equipment. Keep unauthorized personnel away	
Environmental Precautions	Keep out of drains, sewers, ditches and waterways Disposal considerations See section 13 for more information	
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 Minimize use of water during clean-up Recommended filter type: High efficiency particulate air filter (HEPA filter)	
Other Information	Not applicable	
7. HANDLING AND STORAGE		
Handling Technical measures	Provide adequate ventilation as well as local exhaustion at critical locations Ensure adequate ventilation	
	Use personal protection equipment See section 8 for more information	
Advice on safe handling		
Advice on safe handling Conditions for safe storage, including any incompatibilities	See section 8 for more information Minimize dust generation and accumulation	
Conditions for safe storage, including any	See section 8 for more information Minimize dust generation and accumulation	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Provide adequate ventilation as well as local exhaustion at critical locations

Aluminum Hydroxide Japan ACGIH OSHA

TWA: 2 mg/m³ TLV/TWA 8-hr: 1 mg/m³ (respirable fraction) TWA: 15 mg/m³ Total Dust 5 mg/m³ Respirable Dust

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Engineering Measures	Ensure adequate ventilation, especially in confined areas
Personal Protective Equipment	
Respiratory Protection	In case of inadequate ventilation wear respiratory protection
Hand protection	For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn
Eye Protection	Wear safety glasses with side shields (or goggles)
Skin and Body Protection	Wear suitable protective clothing. Chemical resistant apron.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice Wash thoroughly after handling Avoid contact with eyes and skin Do not breathe dust

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: . Physical State

Solid
Powder
Odorless
No information available
8.4 - 10.2 5% Water suspension
ca 300 °C / 572 °F (1013 kPa)
5396 °F (2980 °C) 101,3 kPa
Not applicable.
Not applicable
Not applicable
Not applicable
Not applicable
2.4 g/cm3, 20° C
Insoluble
No information available
No information available
Not applicable
392 °F (200 °C)
Not applicable
Not applicable
None
Not applicable

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions

Chemical stability

Stable under normal conditions

Symptoms

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Possibility of hazardous reactions	None known	
Incompatible materials	Strong oxidizing agents	
Hazardous decomposition products	None known	
11. TOXICOLOGICAL INFORMATION		
General Information	Users are advised to consider national Occupational Exposure Limits or other equivalent values.	
Information on Likely Routes of Exposure		
Ingestion	Ingestion is not a likely route of exposure	
Aspiration hazard	Not an expected route of exposure.	

11.1. Information on toxicological effects

<u>Aluminum Hydroxide</u> Oral LD50 Inhalation LC50 IARC	> 2000 mg/kg Rat Rat > 2.3 mg/l (Al2O3) Aerosol Maximum attainable concentration 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.
Serious eye damage/eye irritation	Non-irritant Rabbit
Respiratory Sensitization	No information available
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.
Reproductive Toxicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.

Low hazard for usual industrial or commercial handling

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Specific target organ toxicity -	Not classified.				
Single exposure					
Specific target organ toxicity - Repeated exposure	No information available.				
Mixture versus substance information	No information available.				
	12. ECOLOGICAL INFORMATION				
Ecotoxicity	Based on available data, the classification criteria are not met				
Persistence and degradability	No data available				
Bioaccumulation	No data available.				
Mobility in soil	No data available				
Hazardous to the ozone layer	No data available				
13. DISPOSAL CONSIDERATIONS					
Disposal	Dispose of in accordance with federal, state and local regulations				
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal				

14. TRANSPORT INFORMATION

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

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

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user

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

15. REGULATORY INFORMATION

Global Inventories

Pure substance/mixture

Substance

Chemical Name	CAS Number	EC No	REACH registrati on number	Australia (AICS)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	-	Philippine s (PICCS)	Taiwan	TSCA: United States
Aluminum Hydroxide	21645-51- 2	-	01-211952 9246-39-0 016		Y	Y	Y	KE-00980	Y	Y	Y	Y	Y

Legend

X / Y: Complies - / N: Not Listed Exempt

KECL - Korean Existing and Evaluated Chemical Substances IECSC - China Inventory of Existing Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances AICS - Australian Inventory of Chemical Substances TSCA (Toxic Substances Control Act) DSL (Domestic Substance List) NDSL (Non-Domestic Substances List) Japan - ISHL Notifiable Substances ENCS - Japan Existing and New Chemical Substances

16. OTHER INFORMATION

Prepared by Reason for Revision	Huber Engineered Materials Global Regulatory Affairs email: regulatory.affairs@huber.com This SDS complies with the requirements of JIS Z 7250:2010 and JIS Z 7252:2009 (Japan)
Bibliography	NITE GHS Classified list Japan Society for occupational health (2015) recommendation of allowable concentrations, etc. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value
Abbreviations and acronyms	International Agency for Research on Cancer (IARC) International Air Transport Association (IATA) International Maritime Dangerous Goods (IMDG) International Uniform Chemical Information Database (IUCLID) Workplace Hazardous Materials Information System (WHMIS) status and classification EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification DOT (Department of Transportation) OSHA (Occupational Safety and Health Administration of the US Department of Labor) TWA - Time-Weighted Average The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008) PPE - Personal Protection Equipment NIOSH - National Institute for Occupational Safety and Health

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TDG (Transport of Dangerous Goods) Canada CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) Reportable Quantity (RQ) (RQ/% in mixture) STEL - Short Term Exposure Limit TLV® - Threshold Limit Value Derived No Effect Level (DNEL) SVHC: Substances of Very High Concern for Authorization: Land transport (ADR/RID) Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ICAO (air) (IMDG) International Maritime Dangerous Goods Positive Pressure Self-Contained Breathing Apparatus (SCBA) Predicted No Effect Concentration (PNEC) Globally Harmonized System (GHS)

Disclaimer

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End of Safety Data Sheet