



ADVANCED MATERIALS

Safety Data Sheet

SB-122

Japan-JIS Z 7253:2019
Occupational Safety and Health Act
GHS (Globally Harmonized System)

Issue Date 21/Feb/2023

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Revision Number 1.3.1

Page 1 of 8

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	SB-122
Pure substance/mixture	Substance
<u>Aluminum Hydroxide</u>	
CAS Number	21645-51-2
Weight-%	100
Recommended Use	Flame retardant
Uses advised against	None known
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

Issue Date 21/Feb/2023
Print Date 21/Feb/2023**Revision Number** 1.3.1
Page 2 of 8

Wash with plenty of soap and water

StorageStore 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	EU REACH registration number	Weight-%
Aluminum Hydroxide	21645-51-2	(1)-17 (ENCS); ISHL	Not classified	01-2119529246-39	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 Aider 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 Media**Water spray (fog)
Foam
Dry chemical
Carbon dioxide (CO₂)**Unsuitable Extinguishing Media** Do not use water jetstream**Special hazards arising from the substance or mixture** Avoid dust formation

Issue Date 21/Feb/2023
Print Date 21/Feb/2023

Revision Number 1.3.1
Page 3 of 8

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 exhaust at critical locations Ensure adequate ventilation Use personal protection equipment See section 8 for more information
Advice on safe handling	Minimize dust generation and accumulation
Conditions for safe storage, including any incompatibilities	Keep containers tightly closed in a cool, well-ventilated place
Hygiene Measures	Wash hands thoroughly after handling
Storage	
Packaging compatibilities	Keep/store only in original container

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	Provide adequate ventilation as well as local exhaust at critical locations
Aluminum Hydroxide Japan	TWA: 2 mg/m ³
Engineering Measures	Ensure adequate ventilation, especially in confined areas

Issue Date 21/Feb/2023
Print Date 21/Feb/2023

Revision Number 1.3.1
Page 4 of 8

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

Physical State	Solid, Powder
Odor	Odorless
Odor Threshold	No information available
Melting Point / Melting Range	No data available
Boiling Point	No data available
Freezing Point	No information available
Autoignition Temperature	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gas)	No data available
Explosive Properties	None
Vapor Pressure	Not applicable
Water Solubility	Insoluble
Partition coefficient	No data available
Viscosity	Not applicable
Specific Gravity	No data available
Oxidizing Properties	Not applicable
Decomposition Temperature	392 °F (200 °C)
Flash Point	Not applicable.
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
Flammability (solid, gas)	Not applicable
Vapor Density	Not applicable
Relative Density	2.4 g/cm ³ , 20° C
Solubility in other solvents	No information available
VOC Content (%)	Not applicable None

10. STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions
Chemical stability	Stable under normal conditions
Possibility of hazardous	None known

Issue Date 21/Feb/2023
Print Date 21/Feb/2023

Revision Number 1.3.1
Page 5 of 8

reactions

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

Inhalation Do not breathe dust
Inhalation of dust may cause irritation of the respiratory system

Skin Contact with dust can cause mechanical irritation or drying of the skin

Ingestion Ingestion is not a likely route of exposure

Aspiration hazard Not an expected route of exposure.

Symptoms Low hazard for usual industrial or commercial handling

11.1. Information on toxicological effects**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.

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.

Issue Date 21/Feb/2023
Print Date 21/Feb/2023

Revision Number 1.3.1
Page 6 of 8

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.

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)

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

Issue Date 21/Feb/2023

Print Date 21/Feb/2023

Revision Number 1.3.1

Page 7 of 8

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**15. REGULATORY INFORMATION****Global Inventories****Pure substance/mixture****Substance**

Chemical Name	CAS Number	EC No	EU REACH registration number	Australia (AICS)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	New Zealand	Philippines (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

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**Huber Engineered Materials Global Regulatory Affairs
email: regulatory.affairs@huber.com**Reason for Revision**

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

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)

HUBER

Safety Data Sheet

SB-122

Issue Date 21/Feb/2023
Print Date 21/Feb/2023

Revision Number 1.3.1
Page 8 of 8

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