HUBER ENGINEERED MATERIALS

SAFETY DATA SHEET

Issue date	June 1, 2015
Revision date	-
Version #	1.2

1. Identification

Product identifier **SB-336**

Other means of identification None.

Recommended use Fire Retardant. Smoke Suppressant.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name J.M. Huber Corporation

Address 3100 Cumberland Boulevard
Suite 600
Atlanta, GA 30339

Telephone (678) 247-7300

Website www.hubermaterials.com

E-mail hubermaterials@huber.com

Contact person CHEMTREC

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

2. Hazard(s) identification

Physical hazards Not classified

Health hazards Not classified

OSHA defined hazards Not classified

Label elements None

Signal word None

Hazard statement The substance does not meet the criteria for classification.

Precautionary statement

Prevention Observe 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 Wash hands after handling.

Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) Not classified.

Supplemental information Not applicable.

3. Composition/information on ingredients

Substances

Chemical name	CAS number
Aluminum Hydroxide	21645-51-2

4. First-aid measures

Inhalation — If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Skin contact — Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact — Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

Ingestion — Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed — Irritant effects. Coughing. Discomfort in the chest. Shortness of breath.

Indication of immediate medical attention and special treatment needed — Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information — If exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media — Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media — None known.

Specific hazards arising from the chemical — None known.

Special protective equipment and precautions for firefighters — Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions — In case of fire and/or explosion do not breathe fumes.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures — Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Avoid generation and spreading of dust. Ensure adequate ventilation.

Methods and materials for containment and cleaning up — Large Spills: If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Sweep up or vacuum up spillage and collect in suitable container for disposal.

Small Spills: Collect dust using a vacuum cleaner equipped with HEPA filter. For waste disposal, see section 13 of the MSDS.

Environmental precautions — Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling — Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities — Store in tightly closed original container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the MSDS).

8. Exposure controls/personal protection

Occupational exposure limits

ACGIH Threshold Limit Values (ACGIH 2014)

Components	Type	Value	Form
Aluminum Hydroxide (CAS 21645-51-2) **US.**	8-hour TLV-TWA	1 mg/m3	Respirable fraction.

OSHA Table Z-1 (29 CFR 1910.1000)

Components	Type	Value	Form
Aluminum Hydroxide (CAS 21645-51-2)	TWA	15 mg/m3	Total dust.
	TWA	5 mg/m3	Respirable fraction.

Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields. Wear a full-face respirator, if needed.
Skin protection	
Hand protection	For prolonged or repeated skin contact use suitable protective gloves.
Other	Wear suitable protective clothing.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	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.

9. Physical and chemical properties

Appearance	
Physical state	Solid
Form	Powder
Color	White
Odor	Odorless.
Odor threshold	Not available.
pH	8.4 – 10.2 (5% water suspension).
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	Not applicable.
Flash point	Non-combustible.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not applicable.
Flammability limit - lower (%) temperature	Not applicable.
Flammability limit - upper (%)	Not applicable.
Flammability limit - upper (%) temperature	Not applicable.
Explosive limit - lower (%)	Not applicable.
Explosive limit - upper (%)	Not applicable.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	2.4 g/cm3, 20° C.
Water Solubility(ies)	Insoluble

Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	392 °F (200 °C)
Viscosity	Not applicable.
Other information	
Heat of combustion (NFPA 30B)	0 kJ/g
VOC (Weight %)	Not applicable.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials. Avoid dust formation.
Incompatible materials	Strong acids.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	Dust may irritate respiratory system.
Skin contact	Dust or powder may irritate the skin.
Eye contact	Dust may irritate the eyes.

Symptoms related to the physical, chemical and toxicological characteristics	Irritant effects. Coughing. Discomfort in the chest. Shortness of breath.

Information on toxicological effects

Acute toxicity	Not Classified.
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	No data available to indicate product or any components present at greater than 0.1% are a carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

US. National Toxicology Program (NTP) Report on Carcinogens No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not likely, due to the form of the product.
Chronic effects	Not classified.

12. Ecological information

Ecotoxicity	Not expected to be harmful to aquatic organisms.
Persistence and degradability	Not readily degradable.
Bioaccumulative potential	None.

Mobility in soil	None.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Dispose of in accordance with local regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as a hazardous material by DOT.

IATA

Not regulated as a dangerous good.

IMDG

Not regulated as a dangerous good.

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

15. Regulatory information

US federal regulations

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

SARA 304 Emergency release notification

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	No

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)	Not regulated.
Food and Drug Administration (FDA)	Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

US. Rhode Island RTK

Not regulated.

US. Texas Commission on Environmental Quality

Short term ESL (1 hour): 50 ug/m3. Annual ESL: 5 ug/m3.

US. California Proposition 65

This product contains no chemicals at levels known to the State of California to cause cancer or reproductive hazards.

CANADA

WHMIS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Chemical Inventories

Country(s) or region	Inventory name	On inventory or exempt
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
Canada	Canada Domestic Substance List, Canada Non-Domestic Substance List	Yes
Mexico	National Inventory of Chemical Substances (INSQ))	Yes

16. Other information, including date of preparation or last revision

Issue date	June 1, 2015
Revision date	-
Version #	1.2
Revision Information	HazReg Data: North America GHS: Classification
Further information	Not available.
References	ACGIH IARC Monographs. Overall Evaluation of Carcinogenicity US. IARC Monographs on Occupational Exposures to Chemical Agents National Toxicology Program (NTP) Report on Carcinogens ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices
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