SAFETY DATA SHEET

1. Identification

Product identifier
SB-36

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 800
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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Hydroxide</td>
<td>21645-51-2</td>
</tr>
</tbody>
</table>
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)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Hydroxide (CAS 21645-51-2)</td>
<td>8-hour TLV-TWA</td>
<td>1 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
</tbody>
</table>

US. OSHA Table Z-1 (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Hydroxide (CAS 21645-51-2)</td>
<td>TWA</td>
<td>15 mg/m³</td>
<td>Total dust. Respirable fraction.</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Biological limit values</td>
<td>No biological exposure limits noted for the ingredient(s).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------------</td>
<td>----------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appropriate engineering controls</td>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Individual protection measures, such as personal protective equipment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eye/face protection</td>
<td>Wear safety glasses with side shields. Wear a full-face respirator, if needed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin protection</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hand protection</td>
<td>For prolonged or repeated skin contact use suitable protective gloves.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>Wear suitable protective clothing.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory protection</td>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thermal hazards</td>
<td>Wear appropriate thermal protective clothing, when necessary.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General hygiene considerations</td>
<td>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.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9. Physical and chemical properties

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

<table>
<thead>
<tr>
<th>Upper/lower flammability or explosive limits</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability limit - lower (%)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flammability limit - lower (%) temperature</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flammability limit - upper (%)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flammability limit - upper (%) temperature</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Explosive limit - lower (%)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Explosive limit - upper (%)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Relative density</td>
<td>2.4 g/cm3, 20° C.</td>
</tr>
<tr>
<td>Water Solubility(ies)</td>
<td>Insoluble</td>
</tr>
</tbody>
</table>
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 Classifed.
- 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
Other adverse effects

None.
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

Dispose of in accordance with local regulations.
Dispose of in accordance with all applicable regulations.
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
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).
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

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory or exempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Canada Domestic Substance List, Canada Non-Domestic Substance List</td>
<td>Yes</td>
</tr>
<tr>
<td>Mexico</td>
<td>National Inventory of Chemical Substances (INSQ)</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.