



# Material Safety Data Sheet



|   |   |                      |
|---|---|----------------------|
| <b>WHMIS</b>  | <b>Protective Clothing</b>  | <b>TDG Road/Rail</b> |
| Not controlled under WHMIS (Canada).<br> |  |                      |

## Section I. Product Identification and Uses

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|   |  |                        |  |
|---|--|------------------------|--|
| <b>Common/Trade name</b> <b>SB-432 Alumina Trihydrate</b> |  | <b>CI#</b>             | Not applicable.  |
| <b>Synonyms</b>   | Gibbsite, Alumina Trihydroxide, Alumina Hydroxide, Aluminum Oxide Trihydrate, Hydrated Alumina | <b>DSL#</b>            | CEPA DSL/TSCA: SB-432 Alumina Trihydrate   |
| <b>Chemical name</b>                                      | Alumina Trihydrate   | <b>CAS#</b>            | 21645-51-2   |
| <b>Chemical formula</b>                                   | Al(OH) <sub>3</sub>  | <b>Code</b>            | SLM002   |
| <b>Chemical family</b>                                    | Alumina Oxide (non-fibrous) Al <sub>2</sub> O <sub>3</sub> ·3H <sub>2</sub> O.                 | <b>Warehouse Class</b> | IIIB   |
| <b>Supplier</b>   | L.V. Lomas Limited/Limitée<br>99 Summerlea Road<br>Brampton, Ontario L6T 4V2 905-458-1555      | <b>Manufacturer</b>    | J.M. Huber Corporation<br>4940 Peachtree Industrial Blvd<br>Norcross, GA<br>U.S.A. 30071 |
| <b>Material uses</b>                                      | Not available.   |                        |  |

## Section IA. First Aid Measures

|                               |   |
|-------------------------------|---|
| <b>Eye contact</b>            | Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Call a physician if irritation develops or persists. |
| <b>Skin contact</b>           | Wash affected skin areas thoroughly with soap and water.  |
| <b>Hazardous skin contact</b> | No additional information.  |
| <b>Slight inhalation</b>      | Remove from exposure area to fresh air immediately. If irritation develops or persists, seek medical attention.                                 |
| <b>Hazardous inhalation</b>   | No additional information.  |
| <b>Slight ingestion</b>       | Rinse mouth thoroughly with water. Do not induce vomiting. Contact a physician, if necessary.   |
| <b>Hazardous ingestion</b>    | No additional information.  |

**Section II. \* Hazardous Ingredients**

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| Name               | CAS #      | Exposure Limits |            |            | % by Weight |
|--------------------|------------|-----------------|------------|------------|-------------|
|                    |            | TWA (ppm)       | STEL (ppm) | CEIL (ppm) |             |
| Alumina Trihydrate | 21645-51-2 |                 |            |            | 100         |

**Toxicity values****Aluminum Hydroxide**

ORAL (LD50): Acute: Not available.

DERMAL (LD50): Acute: Not available.

VAPOUR (LC50): Acute: Not available.

**Section III. Physical Data**

|                                 |                        |       |                |
|---------------------------------|------------------------|-------|----------------|
| Physical state and appearance   | Solid. (Powder.)       | Odor  | Not available. |
| pH (1% soln/water)              | 8.5 - 10.5 @ 20%       | Taste | Not available. |
| Odor threshold                  | Not available.         | Color | White.         |
| Volatility                      | Not available.         |       |                |
| Melting point                   | Decomposes at 300°C    |       |                |
| Boiling point                   | Not available.         |       |                |
| Specific gravity                | 2.4 @ 20°C (Water = 1) |       |                |
| Vapor density                   | Not available.         |       |                |
| Vapor pressure                  | Not available.         |       |                |
| Water/oil dist. coeff.          | Not available.         |       |                |
| Ionicity (surface active agent) | Not available.         |       |                |
| Critical temperature            | Not available.         |       |                |
| Instability temperature         | Not available.         |       |                |
| Conditions of instability       | No additional remark.  |       |                |
| Dispersion properties           | Not available.         |       |                |
| Solubility                      | 1.5 @ 20°C             |       |                |

**Section IV. Fire and Explosion Data**

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|                                      |   |
|--------------------------------------|---|
| <b>The product is:</b>               | Non-flammable.  |
| <b>Auto-ignition temperature</b>     | Not applicable.   |
| <b>Fire degradation products</b>     | Not applicable.   |
| <b>Flash points</b>                  | Not applicable.   |
| <b>Flammable limits</b>              | Not applicable.   |
| <b>Fire extinguishing procedures</b> | Use extinguishing media appropriate for surrounding fire. Firefighters should wear self-contained breathing apparatus with a full facepiece operated in the positive-pressure demand mode when fighting fires.  |
| <b>Flammability</b>                  | No specific information is available in our database regarding the flammability of this product in presence of various materials.<br><br><b>Remark</b><br>No additional remark.   |
| <b>Risks of explosion</b>            | Risks of explosion of the product in presence of mechanical impact: Not available.<br>Risks of explosion of the product in presence of static discharge: Not available.<br>No specific information is available in our data base regarding the product's risks of explosion in the presence of various materials.<br><br><b>Remark</b><br>No additional remark. |

**Section V. Reactivity Data**

|                                   |  |
|-----------------------------------|--|
| <b>Stability</b>                  | Stable under normal conditions of use. Hazardous polymerization will not occur.  |
| <b>Hazardous decomp. products</b> | None.  |
| <b>Degradability</b>              | Not available.   |
| <b>Products of degradation</b>    | No specific information is available in our database regarding the degradation of products.<br>No additional remark.<br><br><b>Remark</b><br>No additional remark. |
| <b>Corrosivity</b>                | Not corrosive.<br><br><b>Remark</b><br>No additional remark.   |
| <b>Reactivity</b>                 | Materials to avoid: Strong acids, strong bases, strong oxidizers, extended heating at high temperatures.<br><br><b>Remark</b><br>No additional remark.             |



## Section VI. Toxicological Properties

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|                                  |   |
|----------------------------------|---|
| <b>Routes of entry</b>           | Eye contact. Skin contact. Inhalation. Ingestion.   |
| <b>TWA</b>                       | <b>Aluminum Hydroxide</b> TWA: 10 mg/m <sup>3</sup> from OSHA (PEL) and from ACGIH (TLV).<br><b>Aluminum Oxide</b> TWA: 10 mg/m <sup>3</sup> from OSHA (PEL) and from ACGIH (TLV).  |
| <b>Toxicity to animals</b>       | See section II Toxicity values of hazardous ingredients.  |
|                                  | <b>Remark</b><br>No additional remark.  |
| <b>Chronic effects on humans</b> | <b>CARCINOGENIC EFFECTS</b> None reported for eye contact, skin absorption on contact, ingestion or inhalation.<br><b>MUTAGENIC EFFECTS</b> Not available.<br><b>TERATOGENIC EFFECTS</b> Not available.<br><b>DEVELOPMENTAL TOXICITY</b> Not available. |
|                                  | <b>Remark</b><br>Medical Conditions Aggravated: Chronic emphysema or respiratory disorders could be aggravated.   |
| <b>Acute effects on humans</b>   | Dust can cause mechanical irritation. Ingestion of large quantities may result in nausea and constipation. Inhalation of dust may cause respiratory irritation.   |
|                                  | <b>Remark</b><br>No additional remark.  |

## Section VII. Preventive Measures

|   |   |
|---|---|
| <b>Waste disposal</b>                             | Dispose of according to local, state, provincial and federal regulations.   |
| <b>Storage</b>                                    | Store in a dry area. Avoid excessive dust generation and use appropriate dust control measures where necessary.   |
| <b>Precautions</b>                                | Avoid excessive dust generation and use appropriate dust control measures where necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Consult with respirator manufacturer to determine respirator selection, use and limitations. Avoid contact with eyes, skin and clothing. Wear dust-resistant safety goggles. Wear rubber or plastic gloves, impermeable apron and boots. Handle in accordance with good hygiene and safety procedures. |
| <b>Small spill and leak</b>                       | Avoid generation of dust during clean-up. Ventilate area. In case of insufficient ventilation, wear suitable respiratory equipment. Vacuum, use wet sweeping compound or water to avoid dusting. Avoid inhalation of dust from spilled material. Avoid eye and skin contact.  |
| <b>Large spill and leak</b>                       | No additional remark.   |
| <b>Protective clothing in case of large spill</b> | Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.  |



### Section VIII. Classification

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TDG road / rail Not controlled under TDG (Canada).

TDG PRIMARY CLASS: Not applicable.

**Remark**

TDG/Containers < 454 Litres: Not applicable.

WHMIS Not controlled under WHMIS (Canada).



**Remark**

Not applicable.

### Section IX. Protective Clothing

Wear eye protection whenever airborne nuisance dust is generated. Goggles are recommended. Wear gloves to prevent skin abrasions. Use NIOSH/MSHA approved dust mask. Determine the appropriate type of equipment for specific application by consulting the respirator manufacturer.



### Section X. Other Information

**References**

- Manufacturer's Material Safety Data Sheet.
- Sax's Dangerous Properties of Industrial Materials, 9th edition, CDROM Version 1.0

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): This product is on the Domestic Substances List (DSL), and is acceptable for use under the provisions of CEPA. TSCA (Toxic Substance Control Act): This product is listed on the TSCA Inventory.

Validated by Teena Warrin on 7/29/2003.  
Information Phone: 1-800-665-6627

Verified by Ginette Bouchard.

Printed 9/5/2003.

**EMERGENCY PHONE: LOCAL POLICE AND PHILIP ENVIRONMENTAL 1-800-567-7455 (CANADA)**

*While the company believes the data set forth herein are accurate as of the date hereof, the company makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.*

TDG/Containers < 454  
 Litres: Not applicable.

TDG  
 PRIMARY  
 CLASS:  
 Not  
 applicable

PRECAUTIONS: Goggles are recommended. Wear impervious gloves. Use NIOSH/MSHA approved dust mask. Store and use away from heat, sparks, open flame, strong acids and strong bases. Store in a cool, dry and well ventilated location.

FIRST AID:

SKIN: Rinse exposed areas with fresh water, then wash thoroughly with mild soap and warm water. If irritation develops or persists, seek medical attention.

EYES: Flush eyes with clean water for at least 15 minutes until no evidence of material remains. Seek medical attention.

INHALATION: Remove from exposure area to fresh air immediately. If irritation develops or persists, seek medical attention.

INGESTION: If ingested, consult a physician. DO NOT induce vomiting unless directed to do so by medical personnel.

IN CASE OF A LARGE SPILL: Notify environmental personnel. Prevent runoff to watershed. Control area of spill and collect material in sealable container or covered transport vehicles for removal to use site or disposal facility.

|                     |   |
|---------------------|---|
| Health Hazard       | 0 |
| Fire Hazard         | 0 |
| Reactivity          | 1 |
| Personal Protection | 0 |

**TDG PRIMARY CLASS**

**TDG/Containers less  
 than 450 Litres**



**BATCH NO.:**

**NET WT.:**