HALTEX® Alumina Trihydrate (all grades)

Material Safety Data Sheet
May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

IDENTITY (As Used on Label and List)
HALTEX® Alumina Trihydrate (all grades)

Section I
Manufacturer's Name
TOR Minerals International
Address (Number, Street, City, State, and ZIP Code)
722 Burleson Street (Plant)
Corpus Christi, TX 78402
Emergency Telephone Number
361/883-5591
Telephone Number for Information
361/883-5591
Date Prepared
January 2006
Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information
Hazardous Components (Specific Chemical Identity; Common Name(s)) OSHA PEL ACGIH TLV Recommended % (optional)
Aluminium Trihydrate (Al(OH)₃) 10 mg/m³ (dust) 10 mg/m³ (dust) 100.0%
(CAS No. 21645-51-2)

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section III - Physical/Chemical Characteristics
Boiling Point 2980 ± 60
Specific Gravity (H₂O = 1) 2.38 - 2.42
Vapor Pressure (mm Hg.) N/A
Melting Point 2015 ± 15
Vapor Density (AIR = 1) N/A
Evaporation Rate (Butyl Acetate = 1) N/A
Solubility in Water Insoluble
Appearance and Odor Fine white powder with no odor.

Section IV - Fire and Explosion Hazard Data
Flash Point (Method Used) Non-flammable
Extinguishing Media As appropriate for surrounding combustibles. Does not burn or support combustion.
Special Fire Fighting Procedures Fire fighters should wear self-contained breathing apparatus.
Unusual Fire and Explosion Hazards No fire or explosion hazard.

Form # HAL013
**Section V - Reactivity Data**

<table>
<thead>
<tr>
<th>Stability</th>
<th>Unstable</th>
<th>Conditions to Avoid</th>
<th>None in normal or expected use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incompatibility (Material to Avoid)</td>
<td>None Known</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous Decomposition or Byproducts</th>
<th>None in normal or expected use</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Hazardous Polymerization</th>
<th>May Occur</th>
<th>Conditions to Avoid</th>
<th>None in normal or expected use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Will Not Occur</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Section VI - Health Hazard Data**

<table>
<thead>
<tr>
<th>Route(s) of Entry:</th>
<th>Primary</th>
<th>Inhalation?</th>
<th>Yes</th>
<th>Skin?</th>
<th>Yes</th>
<th>Ingestion?</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Hazards (Acute and Chronic)</td>
<td>Hydrated Alumina is environmentally safe and is not regulated under RCRA. None of the components are on the EPA list of Extremely Hazardous Substances. However, high exposure to Alumina dust may produce irritation to the eyes and respiratory system.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Carcinogenicity:</th>
<th>None known.</th>
<th>NTP?</th>
<th>N/A</th>
<th>IARC Monographs?</th>
<th>N/A</th>
<th>OSHA Regulated?</th>
<th>N/A</th>
</tr>
</thead>
</table>

**Inhalation** of dust may cause mechanical irritation of the respiratory tract. Skin and eye contact may cause mechanical abrasion - irritation.

**Medical Conditions**

Pre-existing upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema, and asthma.

**Emergency and First Aid Procedures**

**Eye contact**: Flush eye with generous amounts of water for 15 min., consult a physician.  
**Inhalation**: Remove to fresh air.  **Skin contact**: Wash from skin with soap and water.  **Ingestion**: Consult a physician.

**Section VII - Precautions for Safe Handling and Use**

**Steps to Be Taken in Case Material is Released or Spilled**

Prevent spread of material and keep dust level down. Scoop up material or use vacuum technique and place in closed container.

**Waste Disposal Method**

Disposal must be made in accordance with Federal, State, and Local regulations, and pursuant to 40 CFR p. 261 of RCRA regulations currently in effect. Discarded hydrated alumina would not be classified as hazardous waste.

**Precautions to Be Taken in Handling and Storing**

Handle and keep in dry building area. Avoid handling methods which cause dusting. Avoid breathing dust. Use ventilation that will maintain exposure below recommended TLV. Wear goggles and use NIOSH/MSHA approved respirator. Wash thoroughly after handling.

**Other Precautions**

No special requirements. Use good, acceptable industrial hygiene practices.

**Section VIII - Control Measures**

**Respiratory Protection (Specify Type)**

Use NIOSH approved respirator in accordance with air contaminant standard.

<table>
<thead>
<tr>
<th>Ventilation</th>
<th>Local Exhaust</th>
<th>Special</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical (General)</td>
<td>is recommended for potentially dusty conditions.</td>
<td>Other</td>
</tr>
</tbody>
</table>

**Protective Gloves**

No special requirement, ordinary work type.  
**Eye Protection**: Safety glasses or vented goggles.

**Other Protective Clothing or Equipment**

No special requirement, ordinary work clothes.

**Work/Hygienic Practices**

Good industrial hygiene practices. Wash thoroughly with soap and water before eating, drinking, or using tobacco products.

The information herein is believed to be correct and reliable. However no warranty is expressed or implied regarding the accuracy of these data, and none is made as to the marketability of the material or its fitness for any purpose. The consumer accepts the responsibility of and the conditions for liability of use of the products.