



# MATERIAL SAFETY DATA SHEET

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MSDS No: 0075.002.00  
Revision Date: December 16, 2011  
Approved by: Darius Nicpon

| Section 1 Chemical Product and Company Name |   |                    |
|---|---|--------------------|
| Product                                     | CLAY  | ITEM No: FV-1-46xx |
| Synonyms                                    | Clay, Hydrated sodium calcium magnesium aluminio-silicate |                    |
| CHEMTREC                                    | 24 Hour Emergency Phone Number (800) 424-9300             |                    |

| Section 2 Composition/Ingredients Information |            |     |   |
|---|------------|-----|---|
| Chemical Name                                 | CAS#       | %   | TLV Units                                   |
| Bentonite                                     | 1302-78-9  | 25% | TWA: 0.1mg/m <sup>3</sup> (respirable dust) |
| Crystalline silica                            | 14808-60-7 | <1% | TWA: 0.1mg/m <sup>3</sup> (respirable dust) |
| Kaolin  | 1332-58-7  | 75% | TWA: 0.1mg/m <sup>3</sup> (respirable dust) |

| Section 3  |    | Hazards Identification   |  |        |    |              |   |                 |   |                     |   |
|--|----|--|--|--------|----|--------------|---|-----------------|---|---------------------|---|
| <b>CAUTION!</b><br>HIGH CONCENTRATION OF DUST MAY CAUSE RESPIRATORY IRRITATION.<br>MAY CAUSE EYE IRRITATION. SLIPPERY WHEN WET.<br><b>Target organs:</b> Lungs |    | 0 = Minimal<br>1 = Slight<br>2 = Moderate<br>3 = Serious<br>4 = Severe | <table><tr><td>Health</td><td>1*</td></tr><tr><td>Flammability</td><td>0</td></tr><tr><td>Physical Hazard</td><td>0</td></tr><tr><td>Personal Protection</td><td>C</td></tr></table> | Health | 1* | Flammability | 0 | Physical Hazard | 0 | Personal Protection | C |
| Health   | 1* |  |  |        |    |              |   |                 |   |                     |   |
| Flammability   | 0  |  |  |        |    |              |   |                 |   |                     |   |
| Physical Hazard  | 0  |  |  |        |    |              |   |                 |   |                     |   |
| Personal Protection  | C  |  |  |        |    |              |   |                 |   |                     |   |
| HMIS   |    |  |  |        |    |              |   |                 |   |                     |   |

| Section 4 First Aid Measures  |  |
|---|--|
| <b>INGESTION:</b> Never give anything by mouth to unconscious person. Rinse mouth and get conscious person drink a glass of milk or water. Get medical advise.<br><b>INHALATION:</b> Remove to fresh air. Get medical attention if necessary.<br><b>EYE CONTACT:</b> Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek medical attention if irritation develops.<br><b>SKIN CONTACT:</b> Remove contaminated clothing. Flush thoroughly with mild soap and water. |  |

| Section 5 Fire Fighting Measures  |                   |
|---|-------------------|
| Clay will not support fire.   |                   |
| <b>Extinguishing Media:</b> Use any media suitable for extinguishing supporting fire.<br><b>Flash point:</b> N/A<br><b>Autoignition temperature:</b> N/A<br><b>Explosion limits:</b> Lower: N/A | <b>Upper:</b> N/A |
|   |                   |

| Section 6 Accidental Release Measures   |  |
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| Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. |  |

| Section 7 Handling and Storage  |  |
|---|--|
| Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Use only under adult supervision.<br><b>Handling:</b> Use with adequate ventilation. Do not inhale dust. Wash hands thoroughly after handling.<br><b>Storage:</b> Store in closed container in a dry area. Avoid moisture. |  |

| Section 8 | Exposure Controls/ Personal Protection |
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**Engineering controls:** Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limits outlined in section 2. Wear chemical splash goggles, chemical-resistant gloves, and chemical resistant apron.  
**Respiratory protection:** Non should be needed if normal laboratory handling at room temperature. Use NIOSH approved respiratory protection under dusty conditions.

| Section 9 Physical and Chemical Properties  |   |
|---|---|
| <b>Physical state:</b> Solid<br><b>Appearance:</b> tan powder.<br><b>Odor:</b> No odor<br><b>pH:</b> Not available<br><b>Vapor Pressure ( mm Hg):</b> Not available<br><b>Vapor Density:</b> Not available<br><b>Evaporation Rate:</b> Not available<br><b>Viscosity:</b> Not available | <b>Boiling point:</b> Not available<br><b>Melting point:</b> Not available<br><b>Freezing point:</b> Not available<br><b>Decomposition temp:</b> Not available<br><b>Solubility:</b> Insoluble<br><b>Specific gravity (H<sub>2</sub>O = 1):</b> 2.6g/cc<br><b>Percent volatile (%):</b> N/A<br><b>Molecular formula:</b> ( Na, Ca, Mg <sub>2</sub> )Al <sub>2</sub> SiO <sub>2</sub> · nH <sub>2</sub> O)<br><b>Molecular weight:</b> Not available |

| Section 10 Stability and Reactivity   |  |
|---|--|
| <b>Chemical Stability:</b> Stable<br><b>Conditions to Avoid:</b> N/A<br><b>Incompatibilities:</b> N/A<br><b>Hazardous decomposition:</b> None known<br><b>Hazardous polymerization:</b> Will not occur. |  |

| Section 11 Toxicological Information |  |
|--------------------------------------|--|
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**Effects of overexposure:** This product contains crystalline silica in less than 1% as a naturally occurring component and not removed from the clay ore during processing. Crystalline silica is a cancer suspect in humans from occupational sources and in manufacturing environments. Clay is considered as a mild irritant to eyes. Prolonged inhalation of the dust may cause coughing, sneezing and shortness of breath. Pre existing respiratory conditions may be affected by dust.  
ORL-RAT LD<sub>50</sub>: not available  
IHL-RAT LD<sub>50</sub>: not available  
SKN-RABIT LD<sub>50</sub>: not available

| Section 12 Ecological Information |  |
|-----------------------------------|--|
| Non known.                        |  |

| Section 13 Disposal Considerations   |  |
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| Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency. |  |

| Section 14 Transport Information  |  |
|---|--|
| <b>UN number:</b> N/A<br><b>Shipping name:</b> not regulated<br><b>Hazard Class:</b> N/A<br><b>Packing group:</b> N/A<br><b>Exceptions:</b> N/A |  |

| Section 15 Regulatory Information   |  |
|---|--|
| TSCA 8(b): Bentonite. DSCL (EEC): R36– Irritating to eyes. WHMIS (Canada): Class D-2A: Material causing other toxic effects (TOXIC) |  |

| Section 16 Other Information   |  |
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| The Material Safety Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Lab-Aids, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation and verification. The data should not be confused with local, state, federal regulations, or insurance mandates, and CONSTITUTE NO WARRANTY. Any use of these data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond Lab-Aids, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S). |  |