



# Material Safety Data Sheet: **ClayFREE®**

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### For Emergencies Assistance Call:

**USA:** Chemtel, Inc. day or night at 1 800-255-3924

**International:** Chemtel, Inc. day or night at +1 813-248-0585. Call collect if necessary. The bilingual operator can then assist in identifying the language of the caller in they do not speak English so Chemtel can conference the call to their on-line translation service for proper interpretation.

## 1. MATERIAL IDENTIFICATION

Product Name:

**ClayFREE®**

Formula:

Trade Secret  
Water

CAS Reg. No.:

Proprietary  
7732-18-5

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

This product is not a health hazard according to the OSHA Hazard Communication Standard 29CFR1910.1200. If this product is used in a manner that could generate particulates (dust), refer to MSDS Section 8, "Recommended Exposure Limits and Personal Protective Equipment".

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW WARNING!

Static charges generated by emptying package in or near flammable vapors may cause flash fire. May form flammable dust-air mixtures. Inhalation of dust may cause respiratory tract irritation. May cause mild eye irritation. Surfaces subject to spills can become slippery.

### POTENTIAL HEALTH EFFECTS

Repeated ingestion may cause an allergic reaction in susceptible individuals. Repeated or prolonged skin contact may cause allergic dermatitis in susceptible individuals. Refer to Section 5 for Hazardous Combustion Products, and Section 10 for Hazardous Decomposition/Hazardous Polymerization Products.

## 4. FIRST AID MEASURES

<b>SKIN</b>	Wash with soap and water. Get medical attention if irritation develops.
<b>EYE</b>	Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get medical attention if irritation persists.
<b>INHALATION</b>	Remove to fresh air. Get medical attention if cough or other symptoms develop.
<b>INGESTION</b>	If conscious, drink large quantities of water. Induce vomiting by touching the back of the throat. Get medical attention if symptoms persist. NEVER give anything by mouth to an unconscious person.

## 5. FIRE FIGHTING MEASURES

<b>EXTINGUISHING AGENTS RECOMMENDED</b>	Foam, carbon dioxide, or dry chemical
<b>EXTINGUISHING AGENTS TO AVOID</b>	Water may cause extremely slippery conditions.
<b>FIRE FIGHTING PROCEDURES</b>	Wear self-contained breathing apparatus pressure-demand, MSHNNIOSH approved (or equivalent) and full protective gear when fighting fires involving this product.
<b>CONDITIONS TO AVOID</b>	Avoid conditions that generate dust. This product may form flammable dust-air mixtures. Avoid emptying package in or near flammable vapors. Static charges may cause flash fire.
<b>HAZARDOUS COMBUSTION PRODUCTS</b>	If heated to decomposition, the following substances may be formed: oxides of carbon and nitrogen, various hydrocarbons, and/or ammonia, which may be irritating or harmful.
<b>AUTO IGNITION TEMPERATURE</b>	> 700 F

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## 6. ACCIDENTAL RELEASE MEASURES

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Vacuum or sweep up material for use or disposal. Avoid wetting spills, as surfaces can become very slippery. Apply absorbent to wet spills and sweep up for disposal. After removal, flush contaminated area thoroughly with water. In case of accidental spill or release, refer to Section 8, Personal Protective Equipment and General Hygiene Practices.

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## 7. HANDLING & STORAGE

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### GENERAL MEASURES

Ground all equipment.

Blanket vessel with inert gas when emptying bags where flammable vapors may be present.

Ground operator and pour material slowly into conductive, grounded chute.

For large bags (1000 lbs. or greater) a ground cable **MUST** be attached to the bag ground connection.

Store in a cool, dry, well-ventilated area.

Keep container closed when not in use.

### MATERIALS OR CONDITIONS TO AVOID

Keep away from heat, flame, sparks and other ignition sources.

Do not store in direct sunlight or expose to UV radiation.

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## 8. EXPOSURE CONTROLS | PERSONAL PROTECTION

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### WORK PRACTICES & ENGINEERING CONTROLS

Keep away from ignition sources. May form flammable dust-air mixtures.

Eyewash fountains and safety showers should be easily accessible.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Discharge from the ventilation system should comply with applicable air pollution control regulations.

Keep floors clean and dry. Clean up spills immediately.

### GENERAL HYGIENIC PRACTICES

Avoid contact with eyes, skin, and clothing.

Avoid breathing dust.

Wash thoroughly after handling, and before eating, drinking or smoking.

### RECOMMENDED EXPOSURE LIMITS

**PARTICULATES (dust):** If used under conditions that generate particulates (dust), the ACGIH TLV-TWA of 3 mg/m<sup>3</sup> respirable fraction (10 mg/m<sup>3</sup> total) should be observed.

### PERSONAL PROTECTIVE EQUIPMENT

Safety glasses

Impervious gloves

Appropriate respiratory protection is required when exposure to airborne contaminants may exceed acceptable limits.

Respirators should be selected and used in accordance with OSHA, Subpart I (29 CFR 1910.134) and manufacturers recommendations.

### PROTECTIVE MEASURES DURING REPAIR AND MAINTENANCE

Eliminate ignition sources and prevent build-up of static electrical charges.

Completely isolate and thoroughly clean all equipment, piping, or vessels before beginning maintenance or repairs.

Keep area clean. Product will burn.

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## 9. PHYSICAL & CHEMICAL PROPERTIES

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<b>APPEARANCE:</b>	granular powder
<b>COLOR:</b>	white to off-white
<b>ODOR:</b>	odorless
<b>Specific Gravity:</b>	1.59
<b>Percent Volatile:</b>	negligible at 20 C
<b>Solubility In Water:</b>	limited by viscosity
<b>Browning Temperature:</b>	440 F
<b>Moisture Content, (Wt.)%:</b>	8.0 max. (as packed)



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**10. STABILITY & REACTIVITY**

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**HAZARDOUS DECOMPOSITION PRODUCTS**

None known

**HAZARDOUS POLYMERIZATION**

Not anticipated under normal or recommended handling and storage conditions.

**GENERAL STABILITY CONSIDERATIONS**

Stable under recommended handling and storage conditions.

**INCOMPATIBLE MATERIALS**

None known

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**11. TOXICOLOGICAL INFORMATION**

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**CARCINOGENICITY INFORMATION**

PRODUCT/SIMILAR PRODUCT - Not listed as a carcinogen by NTP. Not regulated as a carcinogen by OSHA. Not evaluated by IARC.

**REPORTED HUMAN EFFECTS**

PRODUCT/SIMILAR PRODUCT - A single case of allergic dermatitis has been reported after long-term skin contact. A single case of anaphylaxis was reported after ingestion.

**REPORTED ANIMAL EFFECTS**

PRODUCT/SIMILAR PRODUCT - Reported to cause rabbit eye irritation after exposure to dust. Low order of oral toxicity based on acute and chronic studies in several species.

**MUTAGENICITY/GENOTOXICITY INFORMATION**

PRODUCT/SIMILAR PRODUCT – Not mutagenic in Ames assay or chromosome aberration test.

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**12. ECOLOGICAL INFORMATION**

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**ECOTOXICOLOGICAL INFORMATION**

PRODUCT/SIMILAR PRODUCT – In combination with UV light for 48 hours, the resulting test solutions are biodegradable in 38 days to at least 29% to &lt;3,000 Daltons (size of mass fragments) in a certified test study. The product is rated as a low toxicity to fish, LC 50/96 hours is 357 mg/L to Brachydanio; Bioaccumulation partition coefficient (Pow)=0; No potential to bio accumulate.

**BIODEG RADABILITY**

This product is biodegradable.

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**13. DISPOSAL CONSIDERATIONS**

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**WASTE DISPOSAL**

Incineration in accordance with applicable regulations is the recommended disposal method. Land filling in a permitted solid or hazardous waste facility, meeting technical regulatory requirements, is a suitable alternative.

Wastewater containing this product can be considered for treatment in an acclimated biological treatment system

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**14. TRANSPORTATION INFORMATION**

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**GENERAL**

This product is not subject to DOT, ICAO, IMDG or ADR regulations.

For specific information regarding transportation of this product, please contact the KB International LLC at +1 (423) 266-6964 or FAX at +1 (832) 201-9196.

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**15. REGULATORY INFORMATION**

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**CHEMICAL INVENTORIES**

U.S. TSCA: Included on TSCA Inventory.

**SARA TITLE III – SECTIONS 302 AND 304**

This product is not an Extremely Hazardous Substance subject to reporting under 40CFR355.

**SARA TITLE III - SECTION 311 AND 312**

NHH: Not a health hazard

HC-3: Fire hazard

Revised 06•21•10

NR=Not Required

NE=Not Established

NA=Not Applicable

ND=Not Determined

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## 15. REGULATORY INFORMATION - Continued

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### SARA TITLE III - SECTION 313

This product does not contain any chemicals subject to reporting under Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40CFR372.

### CERCLA

This product does not contain any chemicals subject to reporting as a CERCLA Hazardous Substance under 40CFR302.4.

### RCRA

This product is not a hazardous waste as listed in 40CFR261.33. It does not exhibit any of the hazardous characteristics listed in 40CFR261, Subpart C.

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## 16. OTHER INFORMATION

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The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.

### LIST OF ACRONYMS

ACGIH: American Conferences of Governmental Industrial Hygienists  
AIHA WEEL: American Industrial Hygienists Association - Workplace Environmental Exposure Level  
CASRN: Chemical Abstracts Service Registry Number  
CERCLA: Comprehensive Emergency Response, Compensation and Liability Act  
HMIS: Hazardous Materials Identification System  
IARC: International Agency for Research on Cancer  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PEL: OSHA Permissible Exposure Limit  
RCRA: Resource Conservation and Recovery Act  
RQ: Reportable Quantity  
SARA: Superfund Amendment Reauthorization Act  
STEL: Short-Term Exposure Limit  
TLV: Threshold Limit Values (registered trademark of ACGIH)  
TPQ: Threshold Planning Quantity  
TSCA: Toxic Substance Control Act  
TWA: Time Weighted Average

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