

# MATERIAL SAFETY DATA SHEET

Date Issued: 02/11/2009  
 MSDS No: IS1004  
 Date Revised: 02/11/2009  
 Revision No: 1

## HydroGel™ Alginate Impression Material

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** HydroGel™ Alginate Impression Material  
**PRODUCT DESCRIPTION:** Alginate Impression Material  
**PRODUCT CODE:** 89525; 89531

#### MANUFACTURER

Ortho Technology, Inc.  
 17401 Commerce Park Boulevard  
 Tampa FL 33647  
**Product Stewardship:** 1-800-999-3161

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS
Diatomaceous Earth	68855-54-9
Potassium Titanium Fluoride	16919-27-0
Propylene glycol	57-55-6
Hydrous Calcium Sulfate	10101-41-4

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Dry, fluffy powder with various odors; may be colored.

**IMMEDIATE CONCERNS: Warning: This product contains, silica, crystalline (airborne particles of respirable size) which is known by the State of California to cause cancer.**

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Temporary eye irritation or inflammation.

**INHALATION:** Irritation and soreness in throat and nose. In extreme exposures some congestion may occur.

**ACUTE TOXICITY:** Transitory upper respiratory irritation or eye irritation.

**CHRONIC EFFECTS:** Inhalation of crystalline silica has been classified by IARC carcinogenic for humans (Group 1). Inhalation of crystalline silica is also a known cause of silicosis, a noncancerous lung disease caused by excessive exposure to crystalline silica. Respirable dust from this product may contain up to 52% free crystalline silica. As such it represents a risk to the respiratory system. Long term, unprotected exposure to dust levels in excess of the TLV or PEL may cause lung disease (silicosis)

**MEDICAL CONDITIONS AGGRAVATED:** Pre-existing respiratory and lung disease such as, but not limited to, bronchitis, emphysema, asthma.

**ROUTES OF ENTRY:** Inhalation, Ingestion, and Skin.

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### 4. FIRST AID MEASURES

**EYES:** Flush with plenty of water. If irritation persists, consult a physician.

**SKIN:** Wash off with plenty of soap and water, If irritation persists after washing, consult a physician.

**INHALATION:** Move person to fresh air immediately. Drink water to clear throat and blow nose to evacuate dust. If irritation persists, consult a physician.

### 5. FIRE FIGHTING MEASURES

**FLAMMABLE LIMITS:** N/A to N/A

**EXTINGUISHING MEDIA:** NA = Not Applicable

**FIRE FIGHTING PROCEDURES:** None

**FIRE EXPLOSION:** In common with most organic materials, this product should be treated as a combustible dust in the finely divided and suspended state.

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Vacuum clean dust with equipment fitted with HEPA filter. Use a dust suppressant such as water or sweeping compound if sweeping is necessary.

### 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Avoid breathing dust and contact with eyes.

**HANDLING:** Minimize dust generation and accumulation.

**STORAGE:** Keep all containers closed and sealed when not in use.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use sufficient natural or mechanical ventilation to keep dust level below PEL.

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Goggles or safety glasses with side shields are recommended.

**RESPIRATORY:** Recommend NIOSH approved nuisance dust mask.

**PROTECTIVE CLOTHING:** None

**WORK HYGIENIC PRACTICES:** Use only by professionals trained in using this product.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Dry fluffy powder with various odors, may be colored.

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**COLOR:** Off-white

**VAPOR PRESSURE:** NA = Not Applicable

**VAPOR DENSITY:** NA = Not Applicable

**BOILING POINT:** NA = Not Applicable

**MELTING POINT:** NA = Not Applicable

**SOLUBILITY IN WATER:** Partially Soluble

**EVAPORATION RATE:** NA = Not Applicable

**SPECIFIC GRAVITY:** NA = Not Applicable

### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable.

**POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** High humidity and water contamination will cause material to gel. Prolonged exposure to heat greater than 140F/60C.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None

**INCOMPATIBLE MATERIALS:** Contact with oxygen difluoride, chlorine trifluoride or fluorine.

### 11. TOXICOLOGICAL INFORMATION

**EYE EFFECTS:** Temporary eye irritation or inflammation.

#### CARCINOGENICITY

**IARC:** Yes

**NTP:** Yes

**OSHA:** Yes

### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** Not Available

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose in accordance with local, state, and federal regulations.

### 14. TRANSPORT INFORMATION

**COMMENTS:** Not Available

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### 15. REGULATORY INFORMATION

**COMMENTS** Not Available

### 16. OTHER INFORMATION

**REASON FOR ISSUE:** New MSDS Format

**APPROVED BY:** J. Hutchins     **TITLE:** QA / RA Director

**PREPARED BY:** T. Swan

**INFORMATION CONTACT:** 1-800-999-3161

**REVISION SUMMARY:** Revision #: 1. This MSDS replaces the May 19, 2008 MSDS., , , , Any changes in information are as follows: In Section 1: Approved by, Title, Prepared By, Date PreparedIn Section 2: Routes of EntryIn Section 4: Firstaid - EyesIn Section 5: Lower °F, Upper °F, Flammable LimitIn Section 7: Loading Temperature Notes, General ProceduresIn Section 11: IARC

#### HMIS RATING

<b>HEALTH:</b>	<b>2</b>
<b>FLAMMABILITY:</b>	<b>0</b>
<b>PHYSICAL HAZARD:</b>	<b>0</b>
<b>PERSONAL PROTECTION:</b>	

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