



Material Safety Data Sheet: SandSeal[®] MMS[™]

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1. MATERIAL IDENTIFICATION

Product Name: SandSeal[®] MMS[™]
Chemical Family: Natural Kaolinite /Silica Mineral Drilling Additive
CAS Reg. No.: Proprietary
Formula: Mixture
Emergency Phone No.: North America: 1-800-255-3924; Worldwide: +01-813-248-0585

2. HAZARDOUS INGREDIENTS

Material or Component	Wt %	Hazard Data
Crystalline Silica (Quartz) CAS 14808-60-7	5-30%	IARC listed 0.1mg/M3 TLV
Titanium Dioxide CAS 13463-67-7	3%	10 mg/m3 15 mg/m3
OSHA-PEL		0.1 mg/M3 respirable

CARCINOGENICITY INFORMATION: (silica)

OSHA REGULATED: Yes

NTP LISTED: Yes

IARC LISTED: Yes

WARNING! This product contains crystalline silica. IARC Monograph Volume 68, 1997 concludes "There is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite from occupational sources." IARC classification - Group 1.

The National Toxicology Program (NTP), in the 6th Annual Report on Carcinogens, 1991, has included crystalline silica on its list of substances that are "reasonably anticipated to be carcinogens".

NIOSH has identified crystalline silica as a Potential Occupational Carcinogen using the OSHA classification system outlined in 29 CFR 1910.103.

WARNING! This product contains titanium dioxide. NIOSH has identified titanium dioxide as a potential occupational carcinogen.

3. PHYSICAL DATA

Material is (at normal conditions): Solid
Appearance and Odor: Brown to Grey solid. Odorless.
pH: NA
Boiling Point: NA
Melting Point: ND
Specific Gravity: 2.56 (Water = 1.0)
Vapor Pressure: NA (mg Hg / 20°C)
Vapor Density: NA (Air = 1.0)



3. PHYSICAL DATA

Solubility in Water: Insoluble (% by weight)
% Volatiles by Volume: ND (at 20°C)
Evaporation Rate: None

4. REACTIVITY DATA

Stability: Stable
Conditions to Avoid: NA
Incompatibility (materials to avoid): None known.
Hazardous Decomposition Products : If incinerated at high temperature under controlled conditions, no thermal decomposition byproducts are known.
Hazardous Polymerization: Will not occur.

5. FIRE AND EXPLOSION DATA

Flash Point: Not flammable
Auto Ignition Temperature: ND
Flammable Limits in Air % by Volume: ND
Unusual Fire and Explosion Hazards: None known

6. HEALTH HAZARD INFORMATION

Inhalation: Dust may irritate respiratory tract.
Ingestion: May cause discomfort or gastrointestinal disturbance. Low oral toxicity.
Skin: May cause irritation, especially after prolonged or repeated contact.
Eyes: Dust contact and solution contact may cause irritation.
Permissible Concentration in Air: OSHA-PEL-0.1mg/M3 respirable.
Unusual Chronic Toxicity: **Prolonged inhalation may result in harm to your lungs.**

7. EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Remove to fresh air. Apply mouth-to-mouth artificial respiration if not breathing. Get immediate medical attention.
Skin: Flush with plenty of soap and water for at least 15 minutes. If irritation persists, get medical attention.
Eyes: Immediately flush with water, continuing for 15 minutes. Get medical attention.
Ingestion: If conscious, immediately give 2 to 4 glasses of water. Get medical attention.



8. PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection:	If dusty conditions are encountered, wear NIOSH approved dust respirator.
Ventilation:	General room ventilation should be satisfactory.
Eye & Face Protection:	Safety glasses for normal handling conditions. Goggles when handling solutions. Do not wear contact lens.
Hands, Arms, & Body:	Rubber gloves and full work clothing. Add protective (rubber) clothing if splashing or repeated contact with solution is likely.

9. PRECAUTIONS & PROCEDURES

Fire Extinguishing Agents Recommended:	Foam, carbon dioxide, or dry chemical
Fire Extinguishing Agents to Avoid:	Water may cause extremely slippery conditions.
Special Fire Fighting Precautions:	Wear self-contained breathing apparatus. Wet dispersions of product are extremely slippery.

9. PRECAUTIONS & PROCEDURES - Continued

Ventilation:	Local exhaust if dusting occurs. Natural ventilation - adequate in absence of dust.
Normal Handling:	Avoid contact with skin, eyes or clothing. Do not inhale dusts. Use normal personal hygiene and housekeeping.
Storage:	Store in a dry place.
Spill or Leak (Always Wear Personal Protective Equipment):	Sweep up or shovel into metal or plastic container. Immediately cover with commercial or other available absorbent. Close and store as above. Water may be used to complete cleaning. Large spill: Dike up with same material. Mop up or pump into same container and so forth.
Special Precautions / Procedures / Label Instructions:	Product solutions are extremely slippery.

10. ENVIRONMENTAL

Degradability / Aquatic Toxicity:	Not Determined
Octanol/Water Partition Coefficient:	Not determined
Waste Disposal Methods:	Dispose as non-hazardous solid waste in compliance with state, and local regulations.
RCRA Status of Unused Material if Discharged:	Not a "Hazardous Waste".
Hazardous Waste Number:	NA
DOT Status:	Not regulated.
Reportable Quantity:	EPA 40 CFR 302 (CERCLA 102): NA



10. ENVIRONMENTAL - Continued

Threshold Planning Quantity: EPA 40 CFR 355 (SERA 311-304): NA
Toxic Chemical Release Reporting: EPA 40 CFR 372 (SERA 311-313): NA
EPA Hazard Classification Code: Acute - No; Chronic - Yes; Fire - No; Pressure - No;
 Reactive - No

HMIS & NFPA Ratings:	HMIS	NFPA
Health	1	1
Flammability	0	0
Reactivity	0	0
Special	NA	NA

NJSRN - KBT - 0019 Clay mineral , CAS 14808-60-7, Silica, CAS 7732-18-5, Water

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. If buyer relabels this product, legal counsel should be consulted to insure proper health, safety, and other necessary information is included on the container. Seller provides no warranties; either expressed or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein.