

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

PRODUCT: Bentonite Clay (CAS# 1302-78-9) EMERGENCY TELEPHONE NUMBER: Spinks (901) 642-5414
TRADE NAME: Spinks Gel
CHEMICAL NAME: Hydrous Silicate of Alumina / Wyoming Sodium Bentonite / Sodium Montmorillonite

DATE REVISED: March 31, 2004

II. HAZARDOUS INGREDIENTS

| <u>COMPONENT</u> | <u>CAS#</u> | <u>PERCENT</u> | <u>ACGIH-TLV</u> | <u>OSHA-PEL</u> |
|----------------------------|-------------|----------------|-----------------------|---|
| Crystalline Silica(Quartz) | 14808-60-7 | 2 - 6 % | 0.1 mg/m ³ | 10mg/m ³ ÷ (%SiO ₂ + 2) |
| Aluminum Oxide | 1344-28-1 | 15 - 19 % | 10 mg/m ³ | 5 mg/m ³ |
| Iron oxide | 1309-37-1 | 3-5 % | 5 mg/m ³ | 10 mg/m ³ |

The limits listed above are for the respirable fraction of each contaminant.
The exposure limits are based on a TWA for an eight (8) hour shift / 40 hour week.

III. HEALTH HAZARD DATA

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 Seventh Annual Report on Carcinogens, 1994, has included crystalline silica in 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 1990.103.

CARCINOGENICITY INFORMATION: (silica)

OSHA REGULATED: Yes NTP LISTED: Yes IARC LISTED: Yes

ROUTES OF ENTRY HEALTH EFFECTS

EYES: Contact may cause irritation and temporary discomfort.
INHALATION: Primary route of exposure! Symptoms of acute exposure include coughing, wheezing, difficult breathing, and upper respiratory track irritation. Prolonged and repeated exposure to concentrations in excess of the TLV or PEL may contribute to delayed respiratory complications.
INGESTION: No information available.
SKIN: None expected, but constant contact may cause irritation.

IV. FIRST AID AND EMERGENCY PROCEDURES

INHALATION: Move away from exposure into fresh air conditions. If breathing difficulties continue consult a physician.
EYE CONTACT: Flush with water immediately. Consult a physician if irritation persists.
IF SWALLOWED: None believed to be necessary for coincidental ingestion. Consult a physician for ingestion of large quantities.
SKIN CONTACT: Wash with mild soap and water .

V. PHYSICAL AND CHEMICAL CHARACTERISTICS

| | | | |
|----------------------|--|---------------------|----|
| APPEARANCE: | Yellow, Blue, Brown granules or powder | | |
| ODOR: | Earthy odor | | |
| BOILING POINT: | NA | VAPOR PRESSURE: | NA |
| MELTING POINT: | NA | VAPOR DENSITY: | NA |
| SPECIFIC GRAVITY: | 2.4 - 2.6 | EVAPORATION RATE: | NA |
| SOLUBILITY IN WATER: | Negligible | PERCENT VOLATILITY: | NA |
| PH: | NA | VISCOSITY: | NA |

VI. FIRE AND EXPLOSION HAZARD DATA

| | | | |
|----------------------|---------------|-------------------------------------|------|
| FLASH POINT: | Non-Flammable | SPECIAL FIREFIGHTING PROCEDURES: | None |
| EXTINGUISHING MEDIA: | NA | UNUSUAL FIRE AND EXPLOSION HAZARDS: | None |
| FLAMMABLE LIMITS: | NA | | |

VII. REACTIVITY DATA

| | | | |
|---------------------------|----------------|----------------------|------------|
| STABILITY: | Stable | INCOMPATIBILITIES: | None Known |
| HAZARDOUS DECOMPOSITION: | None | CONDITIONS TO AVOID: | None Known |
| HAZARDOUS POLYMERIZATION: | Will not occur | | |

VIII. SPILL, LEAK AND DISPOSAL INFORMATION

SPILL AND LEAK RESPONSE: Minimize dust generation during cleanup. Vacuum or scoop spilled material into a container for reclamation or disposal.

WASTE DISPOSAL: Raw (unused) material, as shipped, may be disposed of in a sanitary landfill; However spent material may be contaminated and may require special disposal methods. Consult the proper regulatory authorities.

Bentonite clay is not considered a hazardous waste as defined by 40 CFR, Part 261.

IX. SPECIAL HANDLING AND PERSONAL PROTECTION INFORMATION

Avoid unnecessary product agitation to keep dust level to a minimum.
Local exhaust ventilation is recommended for dust generating processes.
Use NIOSH or MSHA approved respirators if dust concentrations exceed the TLV or PEL.
Eye wash stations are recommended in areas where this product is used.
Floors or surfaces covered with this product become extremely slippery when wet.

X. SPECIAL REGULATORY INFORMATION

Bentonite Clay is included on the TSCA inventory as a naturally occurring chemical substance, 40 CFR, Part 710.4(b).
Bentonite Clay is not regulated by the DOT.

To the best of our knowledge the information contained herein is accurate. However there is no warranty of any kind expressed or implied, as to the completeness or accuracy thereof. Final determination of the suitability of this information for a particular use of this product is the sole responsibility of the user.