



1220 L Street, Northwest
Washington, DC 20005-4070
Tel: 202-682-8584
Fax: 202-962-4797

I. MANUFACTURER'S INFORMATION

| | | | |
|------------------------------|---------------------------------------|----------------------|----------------|
| Manufacturer: | Baker Hughes INTEQ | HMIS Hazard | Rating and Key |
| Product Name: | API Test Calibration Bentonite | Health | 0 Minimal 0 |
| Chemical Name: | BENTONITE, UNTREATED | Flammability | 0 Slight 1 |
| Chemical Description: | NATURALLY OCCURRING MINERAL | Reactivity | 0 Moderate 2 |
| Proper Shipping Description: | DRILLING FLUID COMPOUND, N.O.S. | Personal | Serious 3 |
| | | Protection | E Severe 4 |
| Hazard Class: | NOT REGULATED | UN Number: | NA |
| DOT Response Guide: | NA | Transportation Note: | NA |
| | | Hazard Label: | NA |

II. HAZARD IDENTIFICATION

| | | | | | |
|----------------------------------|--------------|--------------|------|-------------|-------------|
| Hazardous Components: | ACGIH TLV: | OSHA PEL: | % | CAS Number: | Product RQ: |
| Silica, Crystalline Quartz | 0.1 MG/M3 R | 0.1 MG/M3 R | 2-15 | 14808-60-7 | NA |
| Silica, Crystalline Cristobalite | 0.05 MG/M3 R | 0.05 MG/M3 R | 2-12 | 14464-46-1 | NA |
| Silica, Crystalline Tridymite | 0.05 MG/M3 R | 0.05 MG/M3 R | <2.0 | 15468-32-3 | NA |
| Gypsum | 5 MG/M3 R | 10 MG/M3 R | 1.0 | 13397-24-5 | NA |

Hazards Associated With Product Use

| YES | YES | YES | YES |
|----------------------|-------------------------|---------------------|----------------------|
| Combustible Liquid | Flammable Material | Pyrophoric Material | Explosive Material |
| Unstable material | Water Reactive Material | Oxidizer | Organic Peroxide |
| Corrosive Material | Compressed Gas | Irritant | Nuisance Particulate |
| Skin Hazard | Eye Hazard | Toxic Agent | Highly Toxic Agent |
| Sensitizer | Carcinogen | Reproductive Toxin | Blood Toxin |
| Nervous System Toxin | Lung Toxin | X Liver Toxin | Kidney Toxin |

Community Right-to-Know (SARA Title III Section 311-312)

| | | | | | | |
|------|-----------------------------|-------------|--------------------|---|--------------------|---|
| Fire | Sudden Release of Pressure: | Reactivity: | Immediate (Acute): | X | Delayed (Chronic): | X |
|------|-----------------------------|-------------|--------------------|---|--------------------|---|

III. PHYSICAL DATA:

| | | | | | |
|--------------------|-------------|---------------------------------------|------------------|----------------------------|---------|
| Boiling Point (F) | NA | Vapor Pressure (mmHg): | NA | pH: | NEUTRAL |
| Melting Point (F): | NA | Vapor Density (Air=1): | NA | Specific Gravity | 2.6 |
| Freezing Point(F): | NA | Solubility In Water: | INSOLUBLE | Percent Volatile By Volume | NA |
| Odor Threshold: | NA | Appearance And Odor: | TAN, ODORLESS | Evaporation Rate (___=1): | NA |
| Material Is: | PURE POWDER | Coefficient of Water/Oil Distribution | INSOLUBLE IN OIL | | |

IV. FIRE & EXPLOSION HAZARD DATA:

| | | | | | | | |
|----------------------|--------|--------------------------------|---------------|--------------------------|------|--------|--|
| Flashpoint (F): | NA | Auto Ignition Temperature (F): | NA | Explosive Limit - Lower: | NA | Upper: | |
| Extinguishing Media: | Water: | CO2: | Dry Chemical: | Foam: | Fog: | | |

Hazardous Combustion Products:

NONCOMBUSTIBLE. CAN PRODUCE SODIUM OXIDE AND CARBON DIOXIDE AT DECOMPOSITION TEMPERATURES.

Fire Fighting Procedures:

COMPATIBLE WITH AGENTS USED TO EXTINGUISH SURROUNDING FIRES.

Unusual Fire and Explosion Hazards:

WATER WET PRODUCT MAY BE SLIPPERY

ND - Not Determined NA - Not Applicable T - Total Dust R - Respirable Fraction C - Ceiling Limit

V. REACTIVITY DATA:

Chemically Stable: Yes: X No: If no, Under Which Conditions? NONE REPORTED
 Incompatibility (Materials to Avoid): NONE REPORTED
 Hazardous Decomposition on Byproducts: PRODUCT WILL NOT READILY DECOMPOSE.
 Hazardous Polymerization May Occur: Will Not Occur: X Conditions to Avoid: NA

VI. HEALTH HAZARD INFORMATION:

Primary Exposure Route: Skin Contact: Skin Absorption: Eye Contact: Inhalation: X Ingestion:
 Product Carcinogenicity: NTP: ND IARC: ND

Acute Effects of Overexposure:

INHALATION MAY RESULT IN DISTRESS IN BREATHING, COUGHING AND IRRITATION OF THE UPPER RESPIRATORY SYSTEM. SKIN AND EYE CONTACT MAY CAUSE MECHANICAL IRRITATION.

Chronic Effects of Overexposure:

UNPROTECTED PROLONGED INHALATION OF DUST CONTAINING CRYSTALLINE SILICA MAY CAUSE PERMANENT LUNG AND LIVER INJURY. LIMITED EVIDENCE (IARC) SHOWS THAT THE INHALATION OF CRYSTALLINE SILICA CAUSES CANCER IN HUMANS.

VII. EMERGENCY AND FIRST AID INSTRUCTIONS:

Eyes: FLUSH EYES WITH WATER 15 MINUTES. CONSULT A PHYSICIAN IF IRRITATION PERSISTS.
 Skin: WASH WITH MILD SOAP AND WATER. APPLY MEDICATED CREAMS TO RELIEVE IRRITATION AND REPLENISH SKIN OILS.
 Ingestion: GIVE FLUIDS TO RINSE MOUTH AND THROAT AND TO DILUTE. CONSULT A PHYSICIAN IF ADVERSE SYMPTOMS DEVELOP.
 Inhalation: REMOVE TO FRESH AIR IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

VIII. ENVIRONMENTAL PROTECTION PROCEDURES:Spill Response:

WEAR PROPER PROTECTIVE EQUIPMENT (SECTION IX). RECOVER SPILLED MATERIAL TO THE ORIGINAL CONTAINER FOR SALE IF POSSIBLE OR TO A SUITABLE WASTE CONTAINER. MINIMIZE DUSTING DURING CLEANUP. FLUSH RESIDUE WITH WATER.

Waste Disposal Method:

PRODUCT IS NOT HAZARDOUS ACCORDING TO RCRA CRITERIA OR LISTING AS SUPPLIED. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS FOR DEALING WITH NONHAZARDOUS WASTE PRODUCT.

Handling:

WARNING! CONTAINS CRYSTALLINE SILICA, INHALATION OF WHICH MAY CAUSE CANCER. WEAR PROPER RESPIRATORY PROTECTIVE EQUIPMENT. MAY CAUSE MECHANICAL EYE, SKIN AND RESPIRATORY IRRITATION. AVOID CONTACT WITH EYES OR SKIN. AVOID BREATHING DUST.

Storage:

STORE IN A DRY PLACE. KEEP DUST TO A MINIMUM. KEEP CONTAINER CLOSED WHEN NOT IN USE. USE ADEQUATE VENTILATION.

IX. OCCUPATIONAL CONTROL MEASURES:

Respiratory Protection: USE AN APPROVED PARTICULATE RESPIRATOR IF EXPOSURE LIMITS MAY BE EXCEEDED.
 Ventilation: VENTILATION TO MAINTAIN SAFE EXPOSURES TO CRYSTALLINE SILICA CONTAINING DUST.
 Clothing: WEAR LONG PROTECTIVE CLOTHING WITH AN APRON TO KEEP OFF DUST.
 Eyewear: WEAR CHEMICAL SAFETY GOGGLES OR GLASSES WITH SIDESHIELDS
 Gloves: WEAR CLOTH, NEOPRENE OR RUBBER GLOVES TO PREVENT MECHANICAL IRRITATION.
 Footwear: WEAR NORMAL SAFETY BOOTS.

X. ADDITIONAL INFORMATION:**DISCLAIMER**

The statements, information, and data provided in this material safety data sheet are believed reliable and accurate. However, no other guarantee, representation, warranty or responsibility is expressed or implied to any user, regardless of reliance on all or any part thereof. This includes warranties or merchantability or of fitness for a particular purpose, and The American Petroleum Institute assumes no responsibility whatever for advice or recommendations made. Nothing contained herein should be interpreted as permission, inducement, or condonement to violate any law pursuant to this product's use, conveyance or disposal.

Prepared By: Don Krause

Date Prepared: 11/25/03

NA-Not Applicable

T-Total Dust

ND-Not Determined

R-Respirable Fraction

C-Ceiling Limit