



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

Material Safety Data Sheet

I. MANUFACTURER'S INFORMATION:

Manufacturer: BAKER HUGHES INTEQ	HMIS Hazard	Health	1	Minimal	0
Product Name: API Standard Evaluation Base Clay	Rating and Key	Flammability	0	Slight	1
Chemical Name: BENTONITE		Reactivity	0	Moderate	2
Chemical Description: NATURALLY OCCURRING MINERAL		Personal		Serious	3
		Protection	E	Severe	4

Proper Shipping Description: DRILLING FLUID COMPOUND, NO.5.

Hazard Class: NOT REGULATED UN Number: NA Hazard Label: NA DOT Response Guide: NAE

Transportation Note: 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	<2.5	14808-60-7	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	X	Nuisance Particulate	X
Skin Hazard	Eye Hazard	Toxic Agent		Highly Toxic Agent	
Sensitizer	Carcinogen	Reproductive Toxin		Blood Toxin	
Nervous System Toxin	Lung Toxin	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):	ND	Vapor Pressure (mm Hg):	ND	pH:	8.5-9.5
Melting Point(F):	ND	Vapor Density (Air=1):	ND	Specific Gravity:	2.5
Freezing Point(F):	ND	Solubility In Water:	INSOLUBLE	Percent Volatile By Volume:	ND
Odor Threshold:	ND	Appearance And Odor:	TAN, ODORLESS	Evaporation Rate (=1):	ND
Material Is:	PURE POWDER	Coefficient of Water/Oil Distribution:			INSOLUBLE IN OIL

IV. FIRE & EXPLOSION HAZARD DATA:

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

Hazardous Combustion Products:

NONCOMBUSTIBLE. MATERIAL MAY PRODUCE SODIUM OXIDE AND CARBON DIOXIDE AT DECOMPOSITION TEMPERATURES.

Fire Fighting Procedures:

COMPATIBLE WITH AGENTS USED TO EXTINGUISH SURROUNDING FIRES. MAYBE USED AS AN INERT MATERIAL FOR SOME CLEANUP APPLICATIONS.

Unusual Fire and Explosion Hazards:

WATER-WET PRODUCT MAY BE SLIPPERY.

V. REACTIVITY DATA:

Chemically Stable: Yes: X No: If no, Under Which Conditions? ND
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

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

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. INGESTION MAY CAUSE MILD STOMACH UPSET.

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 DEALING WITH A 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:

KEEP DUSTS TO A MINIMUM. KEEP CONTAINER CLOSED WHEN NOT IN USE. USE ADEQUATE VENTILATION.

IX. OCCUPATIONAL CONTROL MEASURES:

Respiratory Protection:

US

E AN APPROVED PARTICULATE RESPIRATOR IF EXPOSURE LIMITS MAY BE EXCEEDED.
 Ventilation: VENTILATION NEEDED TO MAINTAIN SAFE EXPOSURES TO CRYSTALLINE SILICA- CONTAINING DUSTS.
 Clothing: WEAR LONG PROTECTIVE CLOTHING WITH AN APRON TO KEEP DUSTS OFF CLOTHES.
 Eyewear: WEAR CHEMICAL SAFETY GOGGLES OR GLASSES WITH SIDESHIELDS
 Gloves: WEAR 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: 1/25/02

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