

2001 Rankin Road
Houston, Texas 77073

Emergency Telephone: (713) 439-8900
Chemtrec: 1(800) 424-9300

I. MANUFACTURER'S INFORMATION:

Manufacturer:	BAKER HUGHES INTEQ	HMIS Hazard	Health	0	Minimal	0
Product Name:	MIL-BAR®	Rating and Key	Flammability	0	Slight	1
Chemical Name:	BARIUM SULFATE, BARITE		Reactivity	0	Moderate	2
Chemical Description:	NATURALLY OCCURRING MINERAL		Personal		Serious	3
			Protection	H	Severe	4

Proper Shipping Description: DRILLING FLUID COMPOUND, N.O.S.

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

Transportation Note: NA

II. HAZARD IDENTIFICATION:

Hazardous Components:	ACGIH TLV:	OSHA PEL:	%	CAS Number:	Product RQ:
BARIUM SULFATE	10 MG/M3 T	10 MG/M3 T	91-94	7727-43-7	NA
SILICA, CRYSTALLINE QUARTZ	0.1 MG/M3 R	0.1 MG/M3 R	4-6	14808-60-7	NA
MICA	3 MG/M3 R	3 MG/M3 R	0-2	12001-26-2	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:	NA
Melting Point(F):	2876	Vapor Density (Air=1):	NA	Specific Gravity:	4.2
Freezing Point(F):	NA	Solubility In Water:	INSOLUBLE	Percent Volatile By Volume (%):	NA
Odor Threshold:	NA	Appearance And Odor:	GRAY, 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:	NA
Extinguishing Media:	Water:	CO2:	Dry Chemical:	Foam:		Fog:	

Hazardous Combustion Products:

NONCOMBUSTIBLE. AT DECOMPOSITION TEMPERATURES MATERIAL MAY PRODUCE TOXIC SULFUR OXIDE

Fire Fighting Procedures:

COMPATIBLE WITH AGENTS USED TO EXTINGUISH SURROUNDING FIRES.

Unusual Fire and Explosion Hazards:

AT DECOMPOSITION (>1600 C), MATERIAL INCOMPATIBLE WITH POTASSIUM AND COMBINATION WITH ALUMINUM CAN PRODUCE AN EXPLOSION.

V. REACTIVITY DATA:

Chemically Stable:	Yes:	X	No:		If no, Under Which Conditions?	NONE REPORTED
Incompatibility (Materials to Avoid):	INCOMPATIBLE WITH POTASSIUM & ALUMINUM AT DECOMPOSITION TEMPERATURES (>1600 C).					

Hazardous Decomposition on Byproducts: PRODUCT DOES 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: NO	IARC: NO				

Acute Effects of Overexposure:

INHALATION MAY RESULT IN DISTRESS IN BREATHING, COUGHING, AND IRRITATION OF THE RESPIRATORY TRACT. 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 WITH WATER 15 MINUTES & CONTACT A PHYSICIAN IF IRRITATION PERSISTS.
Skin:	WASH THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AFTER HANDLING.
Ingestion:	DRINK WATER TO DILUTE. IF A LARGE AMOUNT IS INGESTED, CONSULT A PHYSICIAN.
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). CONTAIN THE SPILL AND MINIMIZE DUSTING. RESACK AND SELL IF POSSIBLE. SHOVEL RESIDUES INTO AN APPROPRIATE WASTE CONTAINER. WATER-WET PRODUCT MAY BE SLIPPERY.

Waste Disposal Method:

CONSULT YOUR LOCAL AUTHORITIES ABOUT THE PROPER PROCEDURES FOR DISPOSING OF BARITE, A NATURALLY-OCCURRING MINERAL THAT IS 90% BARIUM SULFATE AND IS INSOLUBLE IN WATER.

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. PROVIDE PROPER VENTILATION OR RESPIRATORY PROTECTION WHEN HANDLING. KEEP DUSTS TO A MINIMUM. KEEP CONTAINER CLOSED WHILE NOT IN USE. DO NOT REUSE EMPTY CONTAINERS.

IX. OCCUPATIONAL CONTROL MEASURES:

Respiratory Protection:	WEAR AN APPROVED PARTICULATE RESPIRATOR IF NEEDED.
Ventilation:	VENTILATION TO MAINTAIN SAFE EXPOSURES TO CRYSTALLINE DUSTS.
Clothing:	WEAR LONG PROTECTIVE CLOTHING WITH APRON TO KEEP OFF DUST.
Eyewear:	SAFETY GLASSES WITH SIDEGUARDS OR GOGGLES. INSURE A PROPER FIT.
Gloves:	CLOTH, NEOPRENE, OR RUBBER.
Footwear:	USE NORMAL SAFETY BOOTS.

X. ADDITIONAL INFORMATION:**DISCLAIMER**

The statements, information, and data provided in this material safety data sheet are believed reliable and accurate by Baker Hughes INTEQ and its responsible personnel; 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 Baker Hughes INTEQ 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: Jim Rushing

Date Prepared: 03/21/94

Supersedes Issue Date: 05/01/91