

Material Safety Data Sheet


MPSI

 Mineral and Pigment
Solutions, Inc.

Bentonite - Fine White

C.A.S. Number: 1302-78-9 / MSDS C.A.S. Code: 0100

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT/MATERIAL: BENTONITE
MANUFACTURER/DISTRIBUTOR: MINERAL AND PIGMENT SOLUTIONS, INC.
ADDRESS: 1000 COOLIDGE STREET
 SOUTH PLAINFIELD, N.J. 07080
TELEPHONE: (908) 561-6100

SECTION II - COMPOSITION, INFORMATION ON INGREDIENTS:

CHEMICAL NAME: BENTONITE
CAS NUMBER: 1302-78-9

HAZARDOUS INGREDIENTS: CRYSTALLINE SILICA (QUARTZ, 14808-60-7) IS PRESENT AT LESS THAN 1.0% AS A NATURALLY OCCURRING COMPONENT NOT REMOVED FROM THE CLAY ORE DURING PROCESSING. SEE SECTION 11 FOR FURTHER INFORMATION.

SECTION III - HAZARDS IDENTIFICATION:

HMIS RATING: HEALTH 1 (POSSIBLE HAZARD FROM CHRONIC EXPOSURE TO DUST, SEE SECTION 11)
 FLAMMABILITY 0
 REACTIVITY 0
 PERSONAL PROTECTION E

EMERGENCY OVERVIEW: UNDER NORMAL USAGE OR CONTAINED SPILLS THIS MATERIAL DOES NOT POSE A SIGNIFICANT EMERGENCY RISK. THIS MATERIAL IS VERY SLIPPERY WHEN WETTED WITH WATER. APPROPRIATE PRECAUTIONS SHOULD BE TAKEN TO AVOID SLIPS AND FALLS.

POTENTIAL HEALTH EFFECTS:

EYES: MAY CAUSE SLIGHT EYE IRRITATION. DIRECT CONTACT SHOULD BE AVOIDED TO PREVENT PHYSICAL ABRASION.
SKIN: NONE KNOWN.

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MATERIAL SAFETY DATA

INHALATION: SHORT TERM EXPOSURE TO HIGH DUST LEVELS COULD CAUSE MINOR IRRITATION. LONG TERM EXPOSURE TO HIGH CONCENTRATIONS OF DUST SHOULD BE AVOIDED DUE TO THE PRESENCE OF QUARTZ WHICH CAN CAUSE SEVERE AND PERMANENT LUNG DAMAGE WHEN INHALED. CONTROL DUST LEVELS WITH ENGINEERING CONTROLS (LOCAL EXHAUST VENTILATION). PREVENT DUST INHALATION WITH USE OF A NIOSH APPROVED DUST RESPIRATOR IF ENGINEERING CONTROLS ARE INADEQUATE.

CARCINOGENICITY: IARC HAS CLASSIFIED CRYSTALLINE SILICA AS A HUMAN CARCINOGEN, CLASS 1.
TARGET ORGAN: LUNGS

SECTION IV - EMERGENCY AND FIRST AID MEASURES:

SKIN: WASH OFF WITH SOAP AND WATER.

EYE: FLUSH WITH TEPID WATER FOR 15 MINUTES. IF IRRITATION OR PAIN PERSISTS, SEEK MEDICAL ATTENTION.

INHALATION: REMOVE PERSON TO FRESH AIR. SEEK MEDICAL ATTENTION IF SHORTNESS OF BREATH OR IRRITATION PERSISTS.

INGESTION: COULD RESULT IN INTESTINAL BLOCKAGE. IF LARGE AMOUNTS ARE SWALLOWED SEEK MEDICAL ATTENTION.

NOTES TO PHYSICIAN: MIXTURE IS ORALLY NON-TOXIC. SEE SECTION 11 FOR ADDITIONAL TOXICOLOGICAL DATA.

SECTION V - FIRE FIGHTING MEASURES:

FLASHPOINT: NOT APPLICABLE

UPPER EXPLOSIVE LIMIT: NOT APPLICABLE

LOWER EXPLOSIVE LIMIT: NOT APPLICABLE

AUTOIGNITION TEMPERATURE: NOT APPLICABLE

THIN-FILM IGNITION TEMPERATURE: NOT APPLICABLE

HAZARDOUS COMBUSTION PRODUCTS: NONE

BASIC FIRE FIGHTING GUIDANCE: USE APPROPRIATE MEASURES FOR SURROUNDING FIRE.

EXTINGUISHING MEDIA: NOT APPLICABLE

SECTION VI - ACCIDENTAL RELEASE MEASURES:

WET DOWN LARGE SPILLS WITH WATER MIST TO AVOID GENERATING EXCESSIVE DUST LEVELS. CAUTION: THIS MATERIAL IS VERY SLIPPERY WHEN WET. APPROPRIATE PRECAUTIONS SHOULD BE TAKEN TO AVOID SLIPS AND FALLS.

CLEAN-UP PROCEDURES AND EQUIPMENT: USE OF A DUSTLESS VACUUM SYSTEM OR SHOVELING. FLUSHING WITH WATER IS ALSO AN ACCEPTABLE METHOD. AVOID DRY SWEEPING OR OTHER METHODS THAT MAY GENERATE HIGH DUST CONCENTRATIONS. WEAR NIOSH APPROVED DUST RESPIRATOR.

SECTION VII - HANDLING AND STORAGE:

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MATERIAL SAFETY DATA

HANDLING: ADEQUATE VENTILATION IS NECESSARY IN HANDLING AREAS TO PREVENT EXCESSIVE AIRBORNE DUST.

STORAGE: STORE IN CLOSED CONTAINERS IN A DRY AREA.

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION:

ENGINEERING CONTROLS: PROVIDE GENERAL OR LOCAL VENTILATION ADEQUATE TO MAINTAIN AIRBORNE LEVELS BELOW OCCUPATIONAL EXPOSURE LIMITS.

PERSONAL PROTECTION EQUIPMENT:

EYE/FACE: USE SAFETY GLASSES OR GOGGLES.

SKIN: NONE

RESPIRATORY: USE A NIOSH APPROVED, AIR PURIFYING DUST RESPIRATOR IF DUST LEVELS ARE ABOVE EXPOSURE LIMITS. HALF-MASKS ARE USUALLY SUFFICIENT FOR NORMAL USE.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: TAN POWDER
ODOR: MILD
PHYSICAL STATE: SOLID
pH: NOT APPLICABLE
VAPOR PRESSURE: NOT APPLICABLE
VAPOR DENSITY: NOT APPLICABLE
BOILING POINT: NOT APPLICABLE
MELTING POINT: NOT APPLICABLE
SOLUBILITY: NEGLIGIBLE
SPECIFIC GRAVITY: 2.6

SECTION X - STABILITY AND REACTIVITY:

INCOMPATIBILITIES: NONE
CONDITIONS TO AVOID: NOT APPLICABLE

STABILITY: THIS MATERIAL IS STABLE UNDER NORMAL STORAGE AND HANDLING CONDITIONS.

HAZARDOUS POLYMERIZATION: NOT APPLICABLE

SECTION XI - TOXICOLOGICAL INFORMATION:

THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER HAS DETERMINED THAT OVER-EXPOSURE TO CRYSTALLINE SILICA CAN CAUSE LUNG CANCER AND SILICOSIS, A PROGRESSIVE LUNG DISEASE IN HUMANS.

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MATERIAL SAFETY DATA

HEALTH EFFECTS FROM EXPOSURE TO CRYSTALLINE SILICA OCCUR ONLY WHEN IT IS INHALED.

INHALATION EFFECTS: CRYSTALLINE SILICA HAS BEEN SHOWN TO CAUSE SILICOSIS AND LUNG CANCER. CRYSTALLINE SILICA ONLY CAUSES THESE CONDITIONS WHEN INHALED.

SKIN CONTACT: PROLONGED SKIN CONTACT MAY LEAD TO DRYING OR CRACKING OF THE SKIN DUE TO THE ABSORPTION OF MOISTURE.

EYE CONTACT: AS WITH ANY DUST, WILL BE IRRITATING TO THE EYES DUE TO PHYSICAL ABRASION.

MEDICAL CONDITIONS AGGREGATED: RESPIRATORY DISORDERS.

OCCUPATIONAL EXPOSURE LIMITS: STUDIES HAVE SHOWN THAT THE CRYSTALLINE SILICA IS EVENLY DISTRIBUTED THROUGHOUT ALL PARTICLE SIZES OF THIS PRODUCT. KEEP DUST LEVELS BELOW PERMISSIBLE LIMITS.

ACGIH TWA:	0.1 mg/cu.m. (as quartz)
ACGIH STEL:	N.A.
OSHA PEL (respirable):	10 mg/cu-m- / % SiO ₂ + 2
OSHA PEL (total dust):	30 mg/cu.m. / % SiO ₂ + 2

SECTION XII - ECOLOGICAL INFORMATION:

ECOTOXICOLOGICAL INFORMATION: NONE KNOWN

SECTION XIII - DISPOSAL CONSIDERATIONS:

DISPOSE OF IN A MANNER IN ACCORDANCE WITH LOCAL AND FEDERAL REGULATIONS. THIS INFORMATION APPLIES TO MATERIAL AS MANUFACTURED; CONTAMINATION OR PROCESSING MAY CHANGE WASTE CHARACTERISTICS AND REQUIREMENTS.

SECTION XIV - TRANSPORTATION INFORMATION:

THIS MATERIAL IS NOT REGULATED BY THE DEPARTMENT OF TRANSPORTATION.

SECTION XV - REGULATORY INFORMATION:

SARA 313:	NONE KNOWN
TSCA :	LISTED
EUROPEAN INVENTORY:	LISTED
CANADIAN DSL:	EXEMPT
AUSTRALIAN AICS:	LISTED
JAPANESE ENCS:	ENCS 9 1971

CALIFORNIA PROPOSITION 65: CRYSTALLINE SILICA IN AIRBORNE PARTICLES OF RESPIRABLE SIZE IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

EUROPE: QUARTZ EXPOSURE LIMITS.

BELGIUM: 0.1 mg/cu.m. TWA

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DENMARK:	0.1 mg/cu.m. TWA
SWEDEN:	0.1 mg/cu.m. TWA
U.K. :	0.1 mg/cu.m. (respirable) 0.3 mg/cu.m. (total dust)
RUSSIA:	14.0 mg/cu.m. (STEL)
THAILAND:	10.0 mg/cu.m. (respirable) 30.0 mg/cu.m. (total dust)
FINLAND:	0.2 mg/cu.m. TWA
GERMANY:	0.2 mg/cu.m. TWA
SWITZERLAND:	0.15 mg/cu.m. TWA

NOTE: DIFFERENT COUNTRIES APPLY QUARTZ OCCUPATIONAL EXPOSURE LIMITS IN DIFFERENT MANNERS, DEPENDING ON HOW THEY DEFINE "RESPIRABLE" FRACTION, AND MASS PERCENTAGE OF A TOTAL MIXTURE; CONSULT LOCAL AUTHORITIES FOR APPLICATION.

SECTION XVI - OTHER INFORMATION:

"Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, Mineral and Pigment Solutions, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Mineral and Pigment Solutions, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information.

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