

Material Safety Data Sheet


MPSI

 Mineral and Pigment
Solutions, Inc.

Magnesium Aluminum Silicate -

C.A.S. Number: 1302-78-9 / MSDS C.A.S. Code: 0750

(HECTORITE 353)

MATERIAL SAFETY DATA SHEET:

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT/MATERIAL: MAGNESIUM ALUMINUM SILICATE
MANUFACTURER/DISTRIBUTOR: MINERAL AND PIGMENT SOLUTIONS, INC.
ADDRESS: 1000 COOLIDGE STREET
 SOUTH PLAINFIELD, NJ 07080
EMERGENCY TELEPHONE NO. (908) 561-6100

SECTION II - COMPOSITION, INFORMATION ON INGREDIENTS:

CHEMICAL NAME: MAGNESIUM ALUMINUM SILICATE
CAS NUMBER: 12199-37-0

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:

HMS 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:

EYE - MAY CAUSE SLIGHT EYE IRRITATION. DIRECT CONTACT SHOULD BE AVOIDED TO PREVENT PHYSICAL ABRASION.

SKIN - NONE KNOWN

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 USE OF A NIOSH APPROVED DUST RESPIRATOR IF ENGINEERING CONTROLS ARE INADEQUATE.

Information presented herein is believed to be accurate and reliable but is not intended to meet any specification and does not imply any guarantee or warranty by Mineral and Pigment Solutions, Inc. (MPSI). For more information and assistance, contact Technical Services at 1 (908) 561-6100.

• Mineral and Pigment Solutions, Inc. • 1000 Coolidge St. • South Plainfield, NJ 07080 •



MATERIAL SAFETY DATA

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

SECTION IV - EMERGENCY AND FIRST AID MEASURES:

SKIN - WAS OFF WITH SOAP AND WATER
EYE - FLUSH WITH TEPID WATER FOR 15 MINUTES
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 INFORMATION.

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:

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 PROTECTIVE EQUIPMENT:

EYE - USE SAFETY GOGGLES OR GLASSES

SKIN - NONE

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

• **Mineral and Pigment Solutions, Inc.** • 1000 Coolidge St. • South Plainfield, NJ 07080 •
Technical Services Department • Phone: 1 (908) 561-6100 • Fax: 1 (908) 561-5823

MATERIAL SAFETY DATA

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE:	SOFT WHITE FLAKES OR POWDER
ODOR:	NONE
PHYSICAL STATE:	SOLID
MELTING POINT:	NOT APPLICABLE
VAPOR PRESSURE:	NOT APPLICABLE
VAPOR DENSITY:	NOT APPLICABLE
SPECIFIC GRAVITY:	2.5
pH:	NOT APPLICABLE
BOILING POINT:	NOT AVAILABLE
SOLUBILITY IN WATER:	NOT APPLICABLE

SECTION X - STABILITY AND REACTIVITY:

INCOMPATIBLES:	NONE
CONDITIONS TO AVOID:	NOT APPLICABLE
STABILITY:	THIS MATERIAL IS STABLE UNDER NORMAL STORAGE AND HANDLING CONDITIONS.
HAZARDOUS POLYMERIZATION:	NOT APPLICABLE

SECTION XI - TOXOLOGICAL 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. 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 AGGRAVATED - 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:

ECOLOGICAL INFORMATION: NONE KNOWN

SECTION XIII - DISPOSAL CONSIDERATIONS:

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

SECTION XIV - TRANSPORT INFORMATION:

THIS MATERIAL IS NOT REGISTERED BY THE DEPARTMENT OF TRANSPORTATION.

• Mineral and Pigment Solutions, Inc. • 1000 Coolidge St. • South Plainfield, NJ 07080 •
Technical Services Department • Phone: 1 (908) 561-6100 • Fax: 1 (908) 561-5823

MATERIAL SAFETY DATA

SECTION XV - REGULATORY INFORMATION:

STATE: CONSULT LOCAL AND STATE HAZARD COMMUNICATION REGULATIONS.

FEDERAL:	SARA 313:	NONE KNOWN
	TSCA:	LISTED
	EUROPEAN INDUSTRY:	LISTED
	CANADIAN DSL:	EXEMPT
	AUSTRALIAN AICS:	LISTED

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

EUROPE: QUARTS EXPOSURE LIMITS.

BELGIUM:	0.1 mg/cu.m. TWA
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. (respriable) 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 "REPIRABLE" 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.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, THAT THE PRODUCTS TO WHICH THE INFORMATION REFERS MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS, OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS. IN NO CASE SHALL THE INFORMATION BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE."

Issued: 11/02

Supercedes: 1/97

• **Mineral and Pigment Solutions, Inc.** • 1000 Coolidge St. • South Plainfield, NJ 07080 •
Technical Services Department • Phone: 1 (908) 561-6100 • Fax: 1 (908) 561-5823