



DIATOMACEOUS EARTH

015 12/05/95 DIATOMACEOUS EARTH

 PRODUCT IDENTIFICATION

PRODUCT NAME: DIATOMACEOUS EARTH

MSDS #: P1556

CAS NO.: Mixture

COMMON NAMES/SYNONYMS: Celite, Celatom, Aqua-Cel, Perlite, Hyflo, Dicalite, CP-100, Kenite, Tripoli DBL Ground Cream, Fibra-Cel, Speedplus, Speedflow, Superaid, L-5, PS, UF, WF, 2500, 375

FORMULA: Si O₂

DATE ISSUED: 04/92

MOLECULAR WEIGHT: 60

SUPERSEDES: 05/91

 EMERGENCY OVERVIEW

NFPA RATING			HMIS HAZARD RATING
HEALTH: *		HAZARD RATING SCALE:	HEALTH: *
FIRE: 0			FIRE: 0
REACTIVITY: 0	0 = MINIMAL	3 = SERIOUS	REACTIVITY: 0
SPECIAL: None	1 = SLIGHT	4 = SEVERE	
	2 = MODERATE		

* See Health Hazard Information for Chronic Health Hazards

 HAZARDOUS INGREDIENTS

COMPONENT	% Wt.	EXPOSURE LIMITS, MG/M3		
		OSHA PEL	ACGIH TLV	STEL
		Diatomaceous Earth 68855-54-9	Varies	6*
May contain:				
Respirable Cristobalite		0.05	0.05	NE
Quartz		0.1	0.1	NE

Product may contain up to 78% Crystalline Silica (Cristobalite, CAS No. 14464-46-1). It may also contain up to 5% Quartz, CAS No. 14808-60-7).

* = PEL is for Diatomaceous Earth containing less than 1% crystalline silica
 NE = None established

HEALTH HAZARD INFORMATION

PRIMARY ROUTES OF EXPOSURE: Inhalation

SIGNS AND SYMPTOMS OF EXPOSURE

INHALATION: Breathing dust may irritate the nose and throat and cause coughing and chest discomfort.

EYE CONTACT: Dust may irritate the eyes.

SKIN CONTACT: None currently known.

SWALLOWED: None currently known.

CHRONIC EFFECTS OF EXPOSURE: Exposure to quantities of Crystalline Silica in excess of the PEL or TLV listed above is a known cause of Silicosis, a progressive sometimes fatal lung disease.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Pre-existing upper respiratory and lung disease such as, but not limited to, bronchitis, emphysema and asthma.

FIRST AID MEASURES

IF INHALED: Remove to fresh air. Give artificial respiration if not breathing. Get immediate medical attention.

IN CASE OF EYE CONTACT: Immediately flush eyes with lots of running water for 15 minutes, lifting the upper and lower eyelids occasionally. Get immediate medical attention.

IN CASE OF SKIN CONTACT: Immediately wash skin with lots of soap and water. Remove contaminated clothing and shoes; wash before reuse. Get medical attention if irritation persists after washing.

IF SWALLOWED: If conscious, immediately induce vomiting by giving 2 glasses of water and sticking a finger down the throat. Get immediate medical attention. Do not give anything by mouth to an unconscious or convulsing person.

NOTES TO PHYSICIAN: None

FIRE AND EXPLOSION INFORMATION

FLASH POINT, DEG. F: Not Applicable METHOD USED: Not Applicable
FLAMMABLE LIMIT: UEL: Not Applicable LEL: Not Applicable
AUTOIGNITION TEMPERATURE: Not Applicable
EXTINGUISHING MEDIA: Use water spray, dry chemical, CO2, or alcohol foam.

SPECIAL FIRE FIGHTING PROCEDURES: Fire-fighter should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool nearby containers and structures exposed to fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS REACTIVITY

STABILITY: Stable; polymerization will not occur.

CONDITIONS TO AVOID: None

MATERIALS TO AVOID: Hydrofluoric acid. Silica may react violently with Hydrofluoric acid

HAZARDOUS DECOMPOSITION PRODUCTS: None

SPILL, LEAK, AND DISPOSAL PROCEDURES

ACTION TO TAKE FOR SPILLS OR LEAKS: Wear protective equipment including rubber boots, rubber gloves, rubber apron, and a full face piece or a half mask air-purifying cartridge respirator with particulate filters. Wear chemical goggles if a half-mask is worn. For small spills, wet sweep, wash away or vacuum clean and dispose of in DOT-approved waste container. For large spills, shovel into DOT-approved waste containers. Keep out of sewer storm drains, surface waters, and soil.

Comply with all applicable governmental regulations on spill reporting, and handling and disposal of waste. DISPOSAL METHODS: Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate Federal, State and Local regulatory agencies to ascertain proper disposal procedures.

NOTE: Empty containers can have residues, gases and mists and are subject to proper waste disposal, as above.

PERSONAL PROTECTION

VENTILATION: Local mechanical exhaust ventilation capable of maintaining dust emissions at the point of use below the PEL.

RESPIRATORY PROTECTION: If use conditions generate dusts, wear a NIOSH-approved respirator appropriate for those emission levels. Appropriate respirators may be a full face piece or a half-mask air-purifying cartridge respirator equipped for organic vapors/mists, a self-contained breathing apparatus in the pressure demand mode, or a supplied-air respirator.

EYE PROTECTION: Chemical goggles. It is generally recognized that contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury.

PROTECTIVE CLOTHING: Long-sleeved shirt, trousers, safety shoes. Gloves if irritation or excess dryness occurs.

OTHER PROTECTIVE MEASURES: An eyewash and safety shower should be nearby and ready for use. Avoid creating dust and maintain good housekeeping practices.

SPECIAL PRECAUTIONS

STORAGE AND HANDLING PRECAUTIONS: Store in a cool, dry, well-ventilated place away from incompatible materials. Keep container closed when not in use. Do not use pressure to empty container. Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Repair or properly dispose of broken bags.

REPAIR AND MAINTENANCE PRECAUTIONS: None

OTHER PRECAUTIONS: Containers, even those that have been emptied, will retain product residue. Always obey hazard warnings and handle empty containers as if they were full.

PHYSICAL PROPERTIES

BOILING POINT, DEG F.: >4000
MELTING POINT, DEG F.: No Data Available
SPECIFIC GRAVITY (WATER = 1): 2.3
pH: 9 - 10 (10% slurry)
VAPOR PRESSURE, (mm Hg): No Data Available
VAPOR DENSITY (AIR=1): No Data Available
WATER SOLUBILITY %: NIL
EVAPORATION RATE (BUTYL ACETATE = 1): No Data Available
% VOLATILE (by VOLUME): Not Applicable
APPEARANCE AND ODOR: Fine white to buff to pink powder, no odor. (For FW 805 Granules are bigger than FW 80.

TOXICITY DATA

ORAL: No Data Available
DERMAL: No Data Available
INHALATION: No Data Available

CARCINOGENICITY: This material is not considered to be a carcinogen by the National Toxicology Program or by the Occupational Safety and Health Administration. However, The International Agency for Research on Cancer has concluded that there is "limited evidence" that Crystalline Silica can cause cancer in humans.

OTHER DATA: None

ECOLOGICAL INFORMATION

No Data Available

OTHER REGULATORY INFORMATION

SECTION 313: NONE

PROPOSITION 65: This product contains the following chemical(s) considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as causing cancer or reproductive toxicity and for which warnings are now required:

CHEMICAL	CAS NO.	MAX. % WT.
Cristobalite	14464-46-1	70

MASSACHUSETTS: Under the Massachusetts Right-To-Know Law, Hazardous Substance and Extraordinarily Hazardous Substances components present in the product which requires reporting are:

HAZARDOUS SUBSTANCES

CHEMICAL	CAS NO.	MAX. CONCENTRATION (>1%)
Cristobalite	14464-46-1	78
Quartz	14808-60-7	5

PENNSYLVANIA: Under the Pennsylvania Right-To-Know Law, Hazardous Substance and Special Hazardous Substances components present in this product which require reporting are:

HAZARDOUS SUBSTANCES

CHEMICAL	CAS NO.	MAX. CONCENTRATION (>1%)
Cristobalite	14464-46-1	78
Quartz	14808-60-7	5

CALIFORNIA SCAQMD: None

TSCA: The ingredients of this product are on the TSCA inventory.

 REVISIONS

01/90: Added synonym, Other Regulatory Information, Ecological Information, HMIS Rating, Autoignition Temperature, % Volatile, pH and Notes to Physician.

01/90: Revised Spill Recovery from dry to wet.

02/90: Added synonym and revised Appearance and Odor.

04/90: Added synonyms. Revised Molecular Weight, Components PEL Value, Note, pH and Regulatory Information.

09/90: Added: Synonym

04/91: Added: synonym

05/91: Added synonym

04/92: Revised Product Identification, Hazardous Ingredients, Hazardous Reactivity, Personal Protection, Special Precautions, Toxicity, Other Regulatory.

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