



4-Extreme
3-High
2-Moderate
1-Slight
0-Insignificant

NFPA FIRE HAZARD SYMBOL
See NFPA 704 for detailed explanation.

MATERIAL SAFETY DATA SHEET

Health ID
FIRE: 0
Reactivity

No.: 2540

Rev. No.: 5

Date Revised: 05/23/88

Manville

*** FINAL DRAFT 05/16/88 ***

I. PRODUCT IDENTIFICATION

Trade Name(s): CELITE FC, XX, 289, 292, 321, 360, 392, 403, 448 SPONGE-IT, 400, 300, 379
Generic Name: NATURAL DIATOMACEOUS EARTH CAS #: 7631-86-9
Chemical Name: SILICA Formula: SiO₂

Manufacturer: MANVILLE SPECIALTY PRODUCTS GROUP
Address: P.O. BOX 5108
City: DENVER

State: CO Zip: 80217

Telephone: (303)978-3120
Emergency:

II. PRODUCT INGREDIENTS

INGREDIENT NAME	CAS NUMBER	%	PEL and TLV (except as noted)
NATURAL DIATOMACEOUS EARTH-AMORPHOUS SILICA	7631-86-9	100	SEE BELOW
THIS PRODUCT MAY CONTAIN UP TO 3% CRYSTALLINE SILICA: QUARTZ	14808-60-7	<3	10mg/M ³ / %SiO ₂ +2 RESPIRABLE QUARTZ - OSHA

III. PHYSICAL DATA

Appearance and Odor: FINE GRAY POWDER, NO ODOR.

Boiling Point: NA
Vapor Pressure: NA
Water Solubility (%): NEGLIGIBLE
Vapor Density (Air=1): NA

Evaporation Rate (= 1): NA
Specific Gravity (water = 1): 2.3
Melting Point: ND
% Volatile by Volume: NIL

IV. FIRE AND EXPLOSION DATA

Flash Point (Method): NONFLAMMABLE
Flammable Limits: LEL: % UEL: NA %
Extinguishing Media: NA
Unusual Fire or Explosion Hazards: NONE

NFPA Flammable/Combustible Liquid Classification: NA
Auto-ignition Temperature: NA

Special Fire-Fighting Procedures: NONE

V. HEALTH HAZARDS A. Summary/Risks

Summary: THIS PRODUCT CONTAINS CRYSTALLINE SILICA (CS), WHICH IS CONSIDERED A HAZARD BY INHALATION. IARC HAS CLASSIFIED CS AS PROBABLY CARCINOGENIC FOR HUMANS (2A). THIS CLASSIFICATION IS BASED ON THE FINDINGS OF LABORATORY ANIMAL STUDIES THAT WERE CONSIDERED SUFFICIENT AND DATA FROM EPIDEMIOLOGICAL STUDIES THAT WERE CONSIDERED LIMITED FOR CARCINOGENICITY. CS IS ALSO A KNOWN CAUSE OF SILICOSIS, A NONCANCEROUS LUNG DISEASE. FURTHER STUDIES ARE BEING CONDUCTED TO CLARIFY POTENTIAL HEALTH EFFECTS OF DE. CS HAS NOT BEEN CLASSIFIED AS A CARCINOGEN BY NTP OR OSHA.

Medical conditions which may be aggravated: PRE-EXISTING UPPER RESPIRATORY AND LUNG DISEASE SUCH AS, BUT NOT LIMITED TO BRONCHITIS, EMPHYSEMA AND ASTHMA.

Target Organ(s): LUNGS

Acute Health Effects: TRANSITORY UPPER RESPIRATORY IRRITANT.

Chronic Health Effects: CRYSTALLINE SILICA HAS BEEN CLASSIFIED AS PROBABLY CARCINOGENIC FOR HUMANS (2A) BY IARC. CRYSTALLINE SILICA IS ALSO A KNOWN CAUSE OF SILICOSIS, A NONCANCEROUS LUNG DISEASE CAUSED BY EXCESSIVE EXPOSURE TO CRYSTALLINE SILICA.

Primary Entry Route(s): INHALATION.

V. HEALTH HAZARDS B. Signs/Symptoms of Overexposure

Inhalation: IRRITATION AND SORENESS IN THROAT & NOSE. IN EXTREME EXPOSURES SOME CONGESTION MAY OCCUR.

Skin Contact: NA

Skin Absorption: NA

Ingestion: NOT HAZARDOUS WHEN INGESTED.

Eyes: TEMPORARY IRRITATION OR INFLAMMATION.

V. HEALTH HAZARDS C. First Aid/Emergency Procedures

Inhalation: REMOVE TO FRESH AIR. DRINK WATER TO CLEAR THROAT AND BLOW NOSE TO EVACUATE DUST.

Skin Contact: NA

Skin Absorption: NA

Ingestion: NA

Eyes: FLUSH EYES WITH COPIOUS QUANTITIES OF WATER. IF IRRITATION PERSISTS CONSULT A PHYSICIAN.

VI. REACTIVITY DATA

MATERIAL IS STABLE. HAZARDOUS POLYMERIZATION CANNOT OCCUR.

Chemical Incompatibilities: HYDROFLUORIC ACID
Conditions to Avoid: NONE IN DESIGNED USE.

Hazardous Decomposition Products: NONE DETERMINED.

VII. SPILL OR LEAK PROCEDURES

Procedures for Spill/Leak: VACUUM CLEAN DUST WITH EQUIPMENT FITTED WITH HEPA FILTER. IF SWEEPING IS NECESSARY USE A DUST SUPPRESSANT.

Waste Management: WASTES ARE NOT HAZARDOUS AS DEFINED BY RCRA (40 CFR PART 261). COMPLY WITH FEDERAL, STATE & LOCAL REGULATIONS. METHOD OF DISPOSAL-LANDFILL. RQ-N/A.

VIII. SPECIAL PROTECTION INFORMATION

Goggles: NOT NORMALLY REQUIRED.

Gloves: NOT NORMALLY REQUIRED.

Respirator: <10X PEL, USE 3M 9900; <100X PEL, USE MSA ULTRA-TWIN WITH H FILTER; <200X PEL, USE MSA 01-00-06 WITH TYPE C SUPPLIED AIR UNIT (CONT. FLOW MODE); OR EQUIV. SEE SEC IX-OTHER.

Ventilation: USE SUFFICIENT NATURAL OR MECHANICAL VENTILATION TO KEEP DUST LEVEL BELOW PEL.

Other: NA

Special Considerations for repair/maintenance of contaminated equipment: INSURE PROPER RESPIRATORY PROTECTION.

IX. SPECIAL PRECAUTIONS

Storage Segregation Hazard Classes: NA

*** ALWAYS SEGREGATE MATERIALS BY MAJOR HAZARD CLASS ***

Special Handling/Storage: REPAIR ALL BROKEN BAGS IMMEDIATELY.

Special Workplace Engineering Controls: ADEQUATE VENTILATION TO KEEP DUST LEVEL BELOW PEL.

Other: RESPIRATOR: ALL SILICA LEVELS. MSA 01-00-05 WITH TYPE C SUPPLIED AIR UNIT (PRESSURE DEMAND MODE).

Prepared/Revised by: KENNETH A. ROBERTS

Title: MANAGER, PRODUCT SAFETY

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