Material Safety Data Sheet

No.: 2320  Rev. No.: 1  Date Revised: 1/1/01

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name(s): CELITE® C577, FILTER CELITE®

Generic Name: CALCINED DIATOMACEOUS EARTH
Chemical Name: SILICA
Manufacturer: CELITE CORPORATION
Address: P.O. BOX 519
City: LOMPOC
State: CA
Zip: 93438

CAS: 91033-38-3
EINECS: 283-3003-1
Formula: SiO2
Telephone: (805) 735-7791
Emergency CHEMTREC - USA (800) 424-9300
International: (703) 527-3387 (collect)

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME: CALCINED DIATOMACEOUS EARTH (DE)
CAS NUMBER: 91033-38-3
Percentage: 100

3. HAZARD IDENTIFICATION

Summary: THIS PRODUCT CONTAINS CRYSTALLINE SILICA (CS), WHICH IS CONSIDERED A HAZARD BY INHALATION. IARC HAS CLASSIFIED INHALATION OF CS AS CARCINOGENIC FOR HUMANS (GROUP 1). CS IS LISTED BY NTP AS A KNOWN HUMAN CARCINOGEN. INHALATION OF CS IS ALSO A KNOWN CAUSE OF SILICOSIS, A NONCANCEROUS LUNG DISEASE.

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, EYES

Acute Health Effects: TRANSIENT UPPER RESPIRATORY OR EYE IRRITATION
Chronic Health Effects: INHALATION OF CRYSTALLINE SILICA HAS BEEN CLASSIFIED BY IARC AS CARCINOGENIC FOR HUMANS (GROUP 1). INHALATION OF 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, DUST CONTACT WITH EYES.

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

4. FIRST AID MEASURES

Inhalation: REMOVE TO FRESH AIR. DRINK WATER TO CLEAR THROAT AND BLOW NOSE TO EVACUATE DUST.
Eyes: FLUSH EYES WITH LARGE QUANTITIES OF WATER IF IRRITATION PERSISTS CONSULT A PHYSICIAN
Skin Contact: NA
Skin Absorption: NA
Ingestion: NA

5. FIRE FIGHTING MEASURES

Flash Point (Method): NONFLAMMABLE
Flammable Limits: LEL: NA  UEL: NA
NFPA Flammable/Combustible Liquid Classification: NA
Auto-Ignition Temperature: NA
Extinguishing Media: NA
Unusual Fire or Explosion Hazards: NONE
Special Fire-Fighting Procedures: NONE

6. ACCIDENTAL RELEASE MEASURES

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

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7. HANDLING AND STORAGE

MINIMIZE DUST GENERATION AND ACCUMULATION. AVOID BREATHING DUST. AVOID CONTACT WITH EYES. SEAL BROKEN BAGS IMMEDIATELY. CONTINUE TO FOLLOW ALL MSDS/LABEL WARNINGS WHEN HANDLING EMPTY CONTAINERS.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Goggles: GOGGLES OR SAFETY GLASSES WITH SIDESHIELDS ARE RECOMMENDED.
Gloves: NOT NORMALLY REQUIRED.
Respirator: <10X PEL. USE AN N95 QUARTER OR HALF MASK RESPIRATOR; <50X PEL. USE A FULL FACE RESPIRATOR EQUIPPED WITH N95 FILTERS; <200X PEL. USE A POWERED AIR PURIFYING RESPIRATOR (POSITIVE PRESSURE) WITH N95 FILTERS; >200X PEL. USE A FULL FACE, TYPE C SUPPLIED AIR RESPIRATOR (CONTINUOUS FLOW MODE).
Ventilation: USE SUFFICIENT NATURAL OR MECHANICAL VENTILATION TO KEEP DUST LEVEL BELOW PEL.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: FINE PINK POWDER, NO ODOR.
Boiling Point: NA
Vapor Pressure: NA
Water Solubility (%): NEGLIGIBLE
Evaporation Rate ( = 1): NA
Melting Point: ND
Vapor Density (Air=1): NA
Specific Gravity (water = 1): 2.3
% Volatile by Volume: NIL
pH: 5.8

10. STABILITY AND REACTIVITY

MATERIAL IS STABLE.
Chemical Incompatibilities: HYDROFLUORIC ACID.
HAZARDOUS POLYMERIZATION CANNOT OCCUR.
Conditions to Avoid: NONE IN DESIGNED USE.

11. TOXICOLOGICAL INFORMATION

Summary: THIS PRODUCT CONTAINS CRYSTALLINE SILICA (CS), WHICH IS CONSIDERED A HAZARD BY INHALATION. IARC HAS CLASSIFIED CS AS CARCINOGENIC FOR HUMANS (GROUP 1). CS IS LISTED BY NTP AS A KNOWN HUMAN CARCINOGEN. CS IS ALSO A KNOWN CAUSE OF SILICOSIS, A NONCANCEROUS LUNG DISEASE.

12. ECOLOGICAL INFORMATION

GENERALLY CONSIDERED CHEMICALLY INERT IN THE ENVIRONMENT. USED MATERIAL WHICH HAS BECOME CONTAMINATED MAY HAVE SIGNIFICANTLY DIFFERENT CHARACTERISTICS BASED ON THE CONTAMINANT AND SHOULD BE EVALUATED ACCORDINGLY.

13. DISPOSAL CONSIDERATIONS

WASTE IS NOT HAZARDOUS AS DEFINED BY RCRA (40 CFR 261). OTHER STATE AND LOCAL REGULATIONS MAY VARY. CONSULT LOCAL AGENCIES AS NEEDED. USED MATERIAL WHICH HAS BECOME CONTAMINATED MAY HAVE SIGNIFICANTLY DIFFERENT CHARACTERISTICS BASED ON THE CONTAMINANTS AND SHOULD BE EVALUATED ACCORDINGLY.

14. TRANSPORTATION INFORMATION

D.O.T. Proper Shipping Name: EARTH, DIATOMACEOUS, CRUDE OR GROUND — Hazard Classification: NOT CLASSIFIED
Reportable Quantities: NOT APPLICABLE
UN (United Nations), NA(North America) Number: NOT APPLICABLE

15. REGULATORY INFORMATION

RCRA: THIS MATERIAL IS NOT DEFINED AS HAZARDOUS WASTE (40 CFR 261).
TSCA: THIS MATERIAL IS LISTED IN THE TSCA INVENTORY, AND IS NOT OTHERWISE REGULATED BY TSCA SEC. 4, 5, 6, 7 OR 12.
CERCLA: MATERIAL IS NOT REPORTABLE UNDER CERCLA, LOCAL REQUIREMENTS MAY VARY.
SARA: 313: REPORTABLE INGREDIENTS - IMMEDIATE AND DELAYED HEALTH, 313 REPORTABLE INGREDIENTS - NONE
California Proposition 65: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

16. OTHER INFORMATION

Storage Segregation Hazard Classes: NA
Special Handling/Storage: REPAIR ALL BROKEN BAGS IMMEDIATELY.
Special Workplace Engineering Controls: ADEQUATE VENTILATION TO KEEP DUST LEVEL BELOW PEL.

Prepared/Revised by: CHRIS PAULEY
Title: DIRECTOR, HEALTH & SAFETY SERVICES

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