



NFPA FIRE HAZARD SYMBOL  
See NFPA 704 for detailed explanation.  
\* See Section 3 HAZARD IDENTIFICATION

## Material Safety Data Sheet

No.: 3440

Rev. No.: 10

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IMERYS

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Trade Name(s):** (CELITE® = C, KENITE® = K) C503 (ALL GRADES), C535 (ALL GRADES), C545 (ALL GRADES), C560, C580, HYFLO® SUPER CEL®, C490, Infil300, K288, K287.CK.

**Generic Name:** FLUX CALCINED DIATOMACEOUS EARTH

**CAS:** 68855-54-9

**Chemical Name:** SILICA

**EINECS:** 272-489-0

**Manufacturer:** Linjiang Imerys Diatomite Company Ltd

**Formula:** SiO<sub>2</sub>

**Telephone:** (86) 010-65673068

**Address:** Unit 805, Block A, Wan Hao Center No.7 Jian Guo Men South Ave, Dong Cheng District, Beijing, PRC, 100005

**Emergency:** CHEMTREC - USA: (800) 424-9300

**International:** (703) 527-3887 (collect)

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME:	CAS NUMBER:	%	PEL AND TLV (except as noted)
FLUX CALCINED DIATOMACEOUS EARTH (DE)	68855-54-9	100	
THIS PRODUCT MAY CONTAIN UP TO 47% CRYSTALLINE SILICA:			
CRISTOBALITE	14464-46-1	<44	.025mg/M <sup>3</sup> RESPIRABLE CRISTOBALITE, ACGIH
QUARTZ	14808-60-7	< 3	.025mg/W RESPIRABLE QUARTZ, ACGIH

### 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 maybe 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:** TRANSITORY 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.

Eyes: TEMPORARY IRRITATION OR INFLAMMATION.

**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

**NFPA Flammable/Combustible Liquid Classification:** NA

**Flammable Limits:** LEL: NA

UEL: 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.

### 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:** <10XPEL USE AN N95 QUARTER OR HALF MASK RESPIRATOR; <50X PEL USE A FULL FACE RESPIRATOR EQUIPPED WITH N95 FILTERS; <200XPEL, USE A POWERED AIR PURIFYING RESPIRATOR (~OSITIVE ~RESSURE) 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.

<b>BoilingPoint:</b>	NA	<b>Evaporation Rate ( = 1) :</b>	NA	<b>Specific Gravity (water1) :</b>	2.3
<b>VaporPressure:</b>	NA	<b>Melting Point:</b>	ND	<b>%Volatile by Volume:</b>	NIL
<b>WaterSolubility (%) :</b>	NEGLIGIBLE	<b>Vapor Density (Air=1):</b>	NA	<b>pH</b>	9-10.5

**10. STABILITY AND REACTIVITY**

MATERIAL IS STABLE.

HAZARDOUS POLYMERIZATION CANNOT OCCUR.

**Chemical Incompatibilities:** HYDROFLUORICACID.

**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**

**OSHA Hazard Communications Standard, 29 CFR 1910.1200:** MATERIAL IS CONSIDERED HAZARDOUS, SEE SECTION 3.

**RCRA:** THIS MATERIAL IS NOT DEFINED AS HAZARDOUS WASTE PER 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:** 311/312 HAZARD CATEGORIES - IMMEDIATE AND DELAYED HEALTH, 313 REPORTABLE INGREDIENTS - NONE.

**Canada:** THIS PRODUCT IS LISTED ON THE DSL.

**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.

**GHS CLASSIFICATION AND LABELING (EU)**

**Warning**



**H 373: May cause damage to lungs through prolonged or repeated exposure via inhalation**

**P260: Do not breathe dust**

**P285: In case of inadequate ventilation wear respiratory protection**

**P501: Dispose of contents/containers in accordance with local regulation**

**Prepared/Revised by:** IMERY'S China HEALTH & SAFETY SERVICES

As of the date of preparation of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state law(s). However, no warranty or representation with respect to such information is intended or given.