



NFPA FIRE HAZARD SYMBOL
See NFPA 704 for detailed explanation

Material Safety Data Sheet

No.: 2410

Rev. No.: 7

Date Revised: 06/30/2012

HEALTH	* 1
FLAMMABLE	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	E

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name(s): (CELITE® = C) AQUA-CEL®, C269, C503 (ALL), C535, C545, C552, C560, C566, C578P, C580, X-6, X-7

Generic Name: FLUX CALCINED DIATOMACEOUS EARTH

CAS: 68855-54-9

Chemical Name: SILICA

EINECS: 272-489-0

Manufacturer: Imerys

Formula: SiO₂

Address: 1732 North First Street, Suite 450

Telephone: (805) 737-1239

City: San Jose

State: CA

Zip: 95112

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

International: +01 (703) 527-3887 (collect)

2. 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 Affects: TRANSITORY UPPER RESPIRATORY OR EYE IRRITATION.

Chronic Health Affects: 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

3. 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 54% CRYSTALLINE SILICA:			
CRISTOBALITE	14464-46-1	<50	.025mg/M ₃ RESPIRABLE CRISTOBALITE, ACGIH
QUARTZ	14808-60-7	<4	.025mg/M ₃ RESPIRABLE QUARTZ, ACGIH

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 Procedure: NONE

6. ACCIDENTAL RELEASE MEASURES

Procedure 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 WARNING WHEN HANDLING EMPTY CONTAINERS.

Celite® 545

TECHNICAL DATA

PRODUCT

Type	Filter Aid
Description	Flux Calcined Diatomite

TYPICAL PHYSICAL PROPERTIES

Color	White
Appearance	Fine Powder
Density Wet, lbs/ft ³ (g/cc)	21.0 (0.34)
Permeability (Darcy)	4.3
150 Mesh Screen Analysis, % retain	21.0
Median Particle Size, microns	38.9
pH	10.0
Specific Gravity	2.3
Moisture, as shipped (%)	0.1

TYPICAL CHEMICAL ANALYSIS (%)

Loss on Ignition (1000°C)	0.4
SiO ₂	91.5
Al ₂ O ₃	1.0
Fe ₂ O ₃	1.5
P ₂ O ₅	0.004
CaO	0.35
MgO	0.3
Na ₂ O + K ₂ O	2.5

IMERYS

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Production Site

Quincy, Washington, USA

For important health and safety information, please refer to MSDS.

The physical properties of the products represent typical values obtained in accordance with IMERYS test methods and are subject to manufacturing variations. They are provided here as a general reference only, are subject to change without notice, and should not be relied on for any particular application. No guarantee is given or intended. For important health and safety information, please refer to MSDS.

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