OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

CELITE 545
(Filter Aid)
MSDS CAS: 61790-53-2

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name: Celite 545
CAS#: 61790-53-2
Synonym: Celite; Aqua-Cel; Silica; Flux Calcined
Diatomaceous Earth; Kieselguhr, soda ash flux-calcined.
Chemical Name: Silica.
Chemical Formula: SiO_2.

Brand : OXFORD

Details Of The Supplier Of The Safety Data Sheet :

Company identification: OXFORD LAB FINE CHEM LLP
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
Navghar, Vasai (East). Palghar - 401 210.
Mumbai, Maharashtra, INDIA.
Tel: 91-250-2390989
Tel/Fax: 91-250-2390032

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Cristobalite	14464-46-1	<50
Quartz	14808-60-7	<4

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Section 2: Composition and Information on Ingredients (Continued)

Toxicological Data on Ingredients: Cristobalite LD50: Not available. LC50: Not available. Quartz LD50: Not available. LC50: Not available. LCL [Human] - Route - Inhalation; Dose: 300ug/m3/10Y.

Section 3: Hazards Identification

Potential Acute Health Effects:
Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Hazardous in case of inhalation (lung irritant).

Potential Chronic Health Effects:
Hazardous in case of inhalation. CARCINOGENIC EFFECTS: Classified 1 (Proven for human.) by IARC, 1 (Clear evidence.) by NTP, + (Proven.) by OSHA, + (Proven.) by NIOSH [Cristobalite]. Classified A2 (Suspected for human.) by ACGIH [Cristobalite]. Classified 1 (Proven for human.) by IARC, 1 (Clear evidence.) by NTP, + (Proven.) by OSHA, + (Proven.) by NIOSH [Quartz]. Classified A2 (Suspected for human.) by ACGIH [Quartz]. MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, upper respiratory tract. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact:
Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Serious Skin Contact: Not available.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

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Section 4: First Aid Measures (Continued)

Serious Inhalation: **Not available.**

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: **Not available.**

Section 5: Fire and Explosion Data

Flammability of the Product: **Non-flammable.**

Auto-Ignition Temperature: **Not applicable.**

Flash Points: **Not applicable.**

Flammable Limits: **Not applicable.**

Products of Combustion: **Not applicable.**

Fire Hazards in Presence of Various Substances: **Not applicable.**

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: **Not applicable.**

Special Remarks on Fire Hazards: **Not available.**

Special Remarks on Explosion Hazards:
Containers may explode when heated. Heating a mixture of powdered magnesium and silica causes a violent explosion.

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Section 6: Accidental Release Measures

Small Spill:
Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:
Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Keep away from incompatibles such as oxidizing Agents.

Storage:
Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:
Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

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Section 8: Exposure Controls/Personal Protection (Continued)

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
Cristobalite TWA: 0.05 (mg/m3) from ACGIH (TLV) [United States] Inhalation Respirable. TWA: 0.05 (mg/m3) from OSHA (PEL) [United States] Inhalation Respirable. TWA: 0.3 (mg/m3) [United Kingdom (UK)] Inhalation TWA: 0.15 (mg/m3) [Canada] Inhalation Respirable. TWA: 0.05 (mg/m3) [Canada] Inhalation Respirable. Quartz TWA: 0.05 (mg/m3) from ACGIH (TLV) [United States] [1999] Inhalation Respirable. TWA: 0.1 (mg/m3) from OSHA (PEL) [United States] Inhalation Respirable. TWA: 0.3 (mg/m3) [United Kingdom (UK)] Inhalation Respirable. TWA: 0.2 (mg/m3) [Australia] Inhalation TWA: 0.1 (mg/m3) [Canada] Inhalation Respirable. TWA: 4 (mg/m3) [Canada] Inhalation Total3Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Powdered solid.)

Odor	: Odorless.
Taste	: Not available.
Molecular Weight	: Not available.
Color	: White.
pH (1% soln/water)	: Not available.
Boiling Point	: Not available.
Melting Point	: Not available.
Critical Temperature	: Not available.
Specific Gravity	: 2.3 (Water = 1)
Vapor Pressure	: Not available.
Vapor Density	: Not available.
Volatility	: Not available.
Odor Threshold	: Not available.
Water/Oil Dist. Coeff.	: The product is insoluble in water and oil.

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Section 9: Physical and Chemical Properties (Continued)

Ionicity (in Water) : **Not available.**
Dispersion Properties : **Is not dispersed in cold water, hot water.**
Solubility : **Insoluble in cold water, hot water, methanol, diethyl ether, n-octanol, acetone. Soluble in hydrofluoric acid.**

Section 10: Stability and Reactivity Data

Stability: **The product is stable.**

Instability Temperature: **Not available.**

Conditions of Instability: **The product is stable.**

Incompatibility with various substances:
Reactive with oxidizing agents. Slightly reactive to reactive with alkalis.

Corrosivity: **Not available.**

Special Remarks on Reactivity:
Incompatiblity with powferfull oxidizers: fluorine and other fluorine containing compounds, chlorine trifluoride, manganese trioxide, oxygen diflluoride, hydrogen peroxide, vinyl acetate, etc. Incompatible with powdered magnesium, acetylene and ammonia. This chemical is attacked by Hydrogen Fluoride. Silica will dissolve in Hydrofluoric Acid and produce the corrosive gas Silicon Tetrafluoride (SiF4). May be attacked by strong alkalis, expecially with hot.

Special Remarks on Corrosivity: **Not available.**

Polymerization: **Will not occur.**

Section 11: Toxicological Information

Routes of Entry: **Inhalation. Ingestion.**

Toxicity to Animals: **LD50: Not available. LC50: Not available.**

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Section 11: Toxicological Information (Continued)

Chronic Effects on Humans: **CARCINOGENIC EFFECTS: Classified 1 (Proven for human.) by IARC, 1 (Clear evidence.) by NTP, + (Proven.) by OSHA, + (Proven.) by NIOSH [Cristobalite]. Classified A2 (Suspected for human.) by ACGIH [Cristobalite]. Classified 1 (Proven for human.) by IARC, 1 (Clear evidence.) by NTP, + (Proven.) by OSHA, + (Proven.) by NIOSH [Quartz]. Classified A2 (Suspected for human.) by ACGIH [Quartz]. Causes damage to the following organs: lungs, upper respiratory tract.**

Other Toxic Effects on Humans:
Slightly hazardous in case of skin contact (irritant), of ingestion. Hazardous in case of inhalation (lung irritant).

Special Remarks on Toxicity to Animals: **Lowest Published Lethal Dose/Conc: LCL [Human] - Route: Inhalation; Dose: 300 ug/m3/10Y intermittent (Quartz).**

Special Remarks on Chronic Effects on Humans:
May contain up to 54%crystalline silica which may cause cancer (tumorigenic). Crystalline silica has been identified by IARC as a class 1 carcinogen. May affect genetic material (mutagenic).

Special Remarks on other Toxic Effects on Humans:
Acute Potential Health Effects: Skin: No adverse health effects expected. May cause skin irritation by mechanical action. Eyes: May cause eye irritation by mechanical action. Ingestion: No adverse health effects expected. Inhalation: Affects respiration and irritates respiratory tract. Acute silicosis (a form of pneumoconiosis) and lung damage from overwhelming exposure to silica dust has occurred. Coughing, wheezing, sore throat, dryness and irritation of the throat, and dyspnea are symptoms. Inhalation of quartz is classified as a human carcinogen. Risk of cancer depends upon duration and level of exposure. Chronic Potential Health Effects: Inhalation: Chronic exposure to crystalline silia via inhalation can also cause silicosis, the most important form of pneumoconiosis). In silicosis, fibrotic nodules form in the lung around silica deposits (a form of lung scaring). Symptoms include coughing, wheezing, shortness of breath/dyspnea, decrease chest expansion, a progressive

Section 12: Ecological Information

Ecotoxicity: **Not available.**

BOD5 and COD: **Not available.**

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

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Section 12: Ecological Information (Continued)

Toxicity of the Products of Biodegradation:
The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: **Not available.**

Section 13: Disposal Considerations

Waste Disposal :
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

Land transport (ADR-RID)

General information : Not regulated.

Sea transport (IMDG) [English only]

General information : Not regulated.

Air transport (ICAO-IATA) [English only]

General information : Not regulated.

Section 15: Other Regulatory Information

Federal and State Regulations:
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Cristobalite & Quartz (listed as silica, crystalline) California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Cristobalite & Quartz (listed as silica, crystalline) Illinois toxic substances

Section 15: Other Regulatory Information (Continued)

disclosure to employee act: Cristobalite; Quartz Pennsylvania RTK: Cristobalite; Quartz Minnesota: Cristobalite; Quartz Massachusetts RTK: Cristobalite; Quartz New Jersey: Cristobalite; Quartz TSCA 8(b) inventory: Kieselguhr, soda ash flux-calcined (flux calcined diatomaceous earth); quartz; cristobalite

Other Regulations:

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC).
DSCL (EEC): R37- Irritating to respiratory system. R45- May cause cancer. S22- Do not breathe dust. S36- Wear suitable protective clothing.

HMIS (U.S.A.):

Health Hazard: 1
Fire Hazard: 0
Reactivity: 0
Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1
Flammability: 0
Reactivity: 0
Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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