

# MATERIAL SAFETY DATA SHEET (MSDS)



## Section 1 - Introduction

Effective Date: May 22, 1995

Manufacturer's Name: VARIAN SAMPLE PREPARATION PRODUCTS

Address: 24201 Frampton Avenue  
Harbor City, California 90710

Emergency Telephone: (800) 424-9300

Information Telephone: (310) 539-6490

Trade Name: TOX ELUT™

Chemical Name: FLUX CALCINED DIATOMACEOUS EARTH

Varian Reference No.: 12198012, 12198013, 12198014, 12198015, 12198016, and  
12198017

## Section 2 - Hazardous Ingredients

<u>CAS No.</u>	<u>Chemical Name</u>	<u>Percent</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
68855-54-9	Diatomaceous Earth	65%	10 mg/m <sup>3</sup>	6 mg/m <sup>3</sup>
14464-46-1	Cristobalite** (crystalline silica)	35%	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>

n/e = none established

\* = Sara Title III Section 313 Chemical

\*\* = California Proposition 65 Chemical

## Section 3 - Physical Description

Appearance and Odor:

Fine white powder, no odor

% Volatile by Volume @ 25 ° C: > 99

Melting Point: 1710 ° C

Specific Gravity: 2.35

Boiling Point @ 1 atm: 2,230 ° C

Solubility in Water: Practically Insoluble

Flash Point: None

Vapor Pressure: None

Upper Explosive Limit (UEL) in Air, % by volume: None

Lower Explosive Limit (LEL) in Air, % by volume: None

n/a = not available

## Section 4 - Fire and Emergency Handling Data

Extinguishing Media:

Diatomaceous Earth is non-combustible

Personal Protective Equipment:

Use NIOSH/MSHA approved Self-Contained Breathing Apparatus (SCBA) under extremely dusty conditions.

Fire and Explosion Hazard Precautions:

When heated to extreme temperature, diatomaceous earth can crystallize or melt into glass

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**VARIAN**



## Section 5 - Health Hazard Data and Emergency First Aid Procedures

Routes of Entry into the Body:

Inhalation, Eye Contact, Skin

Symptoms:

Irritation and some soreness in the throat and nose. In extreme exposures some congestion may occur.

Long Term Effects:

Crystalline silica has been classified as probably carcinogenic for human by IAC. Crystalline silica is also a known cause of silicosis, a non-cancerous lung disease.

Listed as a Carcinogen or Potential Carcinogen:

NTP  N IARC  Y OSHA  N

FIRST AID:

Skin Contact:

N/A

Eye Contact:

Immediately flush with water for 15 minutes

Inhalation:

Remove to fresh air. Drink water to clear throat and blow nose to remove dust.

Ingestion:

N/A

## Section 6 - Reactivity Data

Stability:  Unstable

Stable

Hazardous Polymerization:

May Occur

Will not occur

Incompatible Materials:

Hydrofluoric Acid

Hazardous Decomposition Products:

None determined

Storage:

Store in a sealed container at room temperature.

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## Section 7 - Spill, Leak and Disposal Procedures

### Steps To Be Taken In Case Material Is Released Or Spilled:

Vacuum dust with equipment fitted with a HEPA filter. If sweeping is necessary use a dust suppressant.

### Waste Disposal Method:

Wastes are not hazardous as defined by RCRA (40 CFR Part 261.) Comply with federal, state, and local hazardous waste regulations.

## Section 8 - Special Protection Information

### Respiratory Protection:

Use a NIOSH-approved HEPA filter respirator if airborne levels are expected to exceed PEL or TLV limits.

### Ventilation:

As needed to reduce worker exposure below PEL and TLV exposure limits.

### Protective Gloves:

Not normally required.

### Eye Protection:

Not normally required.

### Other Protective Equipment:

Protective clothing should be worn where skin irritation or other effects may occur.

## Section 9 - Product Warning Label Statement

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied is hereby made. The recommended Industrial Hygiene and safety procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

## Section 10 - Other Product Warning Statements

California State Proposition 65

This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

SARA Title III

This product **does not contain** a chemical listed in Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986.