

MATERIAL SAFETY DATA SHEET

Document Number MSDS-TAL-004

SECTION 1: NAME AND PRODUCT

Name: SELEE Corporation	Contact: Safety & Environmental Compliance Officer
Address: 700 Shepherd Street Hendersonville, NC 28792 U.S.A.	Emergency Telephone Phone Number: (828) 697-2411 (800) 438-7274
Product Name: Inoculant Filter, TD Series	Telephone Number for Information: (828) 697-2411 (800) 438-7274
Product Type: Inoculant Filter	Date Prepared: 11/27/06 Date Superseded: 10/19/04 Revision: 4

SECTION II: REGULATED INGREDIENTS – Product is separated according to individuals components

Tablet

Chemical Name	CAS #	Weight Percent Range	OSHA PEL (TWA)	ACGIH TLV (TWA)	Carcinogen Y/N
Silicon *	7440-21-3	65	15 mg/m3	10 mg/m3	N
Aluminum *	7429-90-5	<1.0	15 mg/m3	10 mg/m3	N
Calcium *	7440-70-2	<1.7	N/E	N/E	N
Lanthanum *	7439-91-0	0.5	N/E	N/E	N
Iron*	7439-89-6	21.8	10 mg/m3	5 mg/m3	N
Manganese	7439-96-5	5	5 mg/m3	0.2 mg/m3	N
Zirconium	7440-67-7	5	5 mg/m3	5 mg/m3	N
Sodium Silicate	1344-09-8	0.4-0.6	2 mg/m3	2 mg/m3	N
Sodium hydroxide	1310-73-2	0.2-0.4	2 mg/m3	2 mg/m3	N

* Note- These materials form a complex of silicides. Percentages are based on elemental metals introduced in the formation of the product.

Adhesive

Chemical Name	CAS #	Weight Percent Range	OSHA PEL (TWA)	ACGIH TLV (TWA)	Carcinogen Y/N
Proprietary resin compound	Proprietary	100	N/E	N/E	N

Filter

Non-hazardous fired ceramic material

SECTION III: PHYSICAL AND CHEMICAL DATA – Product is separated according to individuals components

Tablet

Boiling Point:	Melting Point: 1200°C	Specific Gravity:
Vapor Pressure:	Percent Volatile by Vol.:	Vapor Density:
Evaporation Rate:	Solubility by Water: the preparation reacts with water, acids, and with water in a base state (whitewash, sodic water)	Density: approx. 4.5 g/cm ³

Appearance and Odor: gray solid, no odor

Adhesive

Boiling Point: N/A

Melting Point: 202 F

Specific Gravity: .99

Vapor Pressure: solid

Percent Volatile by Vol.: N/A

Vapor Density: N/A

Evaporation Rate: solid

Solubility by Water: Insoluble

Appearance and Odor: Clear solid, no odor

Filter

Boiling Point: N/A

Melting Point: 3100 F

Specific Gravity: approx. 3.0

Vapor Pressure: N/A

Percent Volatile by Vol.: N/A

Vapor Density: N/A

Evaporation Rate: N/A

Solubility by Water: N/A

Appearance and Odor: Gray to black, no odor, solid porous filter

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A

(Method Used):

Flammable Limits:

LEL:

UEL:

Extinguishing Media: Recommended: special powder for metal fires. Avoid extinguishers that use concentrated jets of water and wet products

Special Fire Fighting Procedures: Possibly cover the product with dry sand

Explosion Potential: Do not create dust clouds

Fire Hazard Rating:

Fire Hazard Rating Explanation:

1

0 – Will Not Burn

3 – Below 100°F (38°C)

1 – Above 200°F (93°C)

4 – Below 73°F (23°C)

2 – Below 200°F (93°C)

SECTION V – HEALTH, FIRST AID AND MEDICAL TREATMENT

Inhalation:

Health Hazards (Acute and Chronic):

Avoid inhaling dust. Treat as nuisance dust. Excessive inhalation of dust from product over long period of time can cause industrial bronchitis

Emergency and First Aid Procedures:

Treat as nuisance dust. Remove to fresh air

Ingestion:

Health Hazards (Acute and Chronic):

N/A

Emergency and First Aid Procedures:

Consult a doctor

Skin:

Health Hazards (Acute and Chronic):

Abrasive, recommend wearing protective equipment

Emergency and First Aid Procedures:

Wash with soap and water

Eye:

Health Hazards (Acute and Chronic):

Possible irritation

Emergency and First Aid Procedures:

Rinse out with copious amounts of water for 15 minutes. See doctor if irritation persists.

Other Potential Risks:

Health Hazards (Acute and Chronic):

Emergency and First Aid Procedures:

10/12/2009

SECTION IX – SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storage:

Store away from moisture and other incompatible materials.

Other Precautions:

When damp or moist, the product may react with water releasing small amounts of:

- Hydrogen (H₂)
- Arsine (AsH₃) : Exposure limit value = 0.80 mg/m³
Mean exposure value = 0.20 mg/m³
- Hydrogen phosphide (PH₃) : Exposure limit value = 0.40 mg/m³
Mean exposure value = 0.13 mg/m³

Harmful effects on aquatic fauna in the event of a large quantity of the product being released into a relatively limited volume of water

Approx. 0.04 liter of decomposition products **per kg of tablet** material per hour when crushed and submerged over 7 hrs in ambient temperature water.

Arsenic and phosphorous are trace elements in the range of parts per billion (PPB), attached to the silicides in the tablet. These trace elements form the arsine and phosphine when water is added.

Both the crystalline and fused silica used in this product are chemically and physically bound to this product in a solid form. These materials are not loose or in a free-floating dust, hence they are non-hazardous.

Special Rating Explanation (If Applicable).

Oxidizer	Oxy	Alkali	ALK	N/E= Not Established
Acid	ACD	Corrosive	COR	
Use No Water	NW	Radiation Hazard	R	
NAIF = No Applicable Information Found				N/A = Not Applicable

SECTION X – REGULATORY INFORMATION

Toxic effects in the event of exposure to the product :

- Arsine (AsH₃) :
 - Haematological effects: haemolytic action on carcinogenic red blood cells
 - Nervous system: effects on the nervous system
 - In the event of ingestion: effects on the gastro-intestinal system
 - Acute toxicity a few hours after exposure
- Phosphine (PH₃) :
 - Effects on the airways: pulmonary irritation
 - Nervous system: effects on the nervous system
 - In the event of ingestion: effects on the gastro-intestinal system
- Acute, chronic toxicity

Normal product use does not create exposure.

Cutting or destroying product may produce respirable dust containing crystalline silica and/or cristobalite. Cristobalite is classed as an A2 carcinogen by IARC.

This product may contain silica but it does not release it in use. Crystalline silica may be in any of several forms depending on the conditions of use. The OSHA PEL for the respirable portion of any generated dusts is:

PEL=10 mg/M3/(% quartz + 2 (% cristobalite) + 2 (% tridymite) + 2)