

# MATERIAL SAFETY DATA SHEET

Document Number MSDS-ACS-003

## SECTION 1: NAME AND PRODUCT

**Name:**

SELEE Corporation

**Address:**

700 Shepherd Street  
Hendersonville, NC 28792 U.S.A.

**Product Name:**

SMP 72-AL

**Product Type:**

Aluminum Oxide and Calcium Aluminate  
Refractory

**Contact:**

Safety & Environmental Compliance Officer

**Emergency Telephone Phone Number:**

(828) 697-2411  
(800) 438-7274

**Telephone Number for Information:**

(828) 697-2411  
(800) 438-7274

**Date Prepared:**

31 Oct 06

**Date Superseded:**

30 Apr 01

**Rev #:**

1

## SECTION II: REGULATED INGREDIENTS\*

Non-hazardous fired ceramic material

## SECTION III: PHYSICAL AND CHEMICAL DATA

Boiling Point: N/A

Melting Point: 3400°F (1870°C)

Specific Gravity: 3.00

Vapor Pressure: N/A

Percent Volatile by Vol.: N/A

Vapor Density: N/A

Evaporation Rate: N/A

Solubility by Water: <3%

Solubility in Alcohol: <3%

Solubility in Other Solvents: N/A

Appearance and Odor: Granular to Fine Material – No Odor

## SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A

(Method Used): N/A

Flammable Limits:

LEL: N/A UEL: N/A

Extinguishing Media: N/A

Special Fire Fighting Procedures: N/A

Explosion Potential: N/A

Fire Hazard Rating Explanation:

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):  
Do not breathe dust as it may cause permanent lung injury (Silicosis). The (IARC) has classified crystalline silica inhaled in the form of quartz or cristobalite carcinogenic to humans (Group I).

Emergency and First Aid Procedures:  
Remove to fresh air.

**Ingestion:** Health Hazards (Acute and Chronic):  
NAIF  
Emergency and First Aid Procedures:  
Drink plenty of water. Consult a physician.

**Skin:** Health Hazards (Acute and Chronic):  
Irritant

Emergency and First Aid Procedures:  
Wash with plenty of water.

**Eye:** Health Hazards (Acute and Chronic):  
Irritant

Emergency and First Aid Procedures:  
Flush immediately and repeatedly with water and consult a physician.

**Other Potential Risks:** Health Hazards (Acute and Chronic):  
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)

Emergency and First Aid Procedures:  
Minimize exposure and consult a physician.

### **Health Hazard Rating Explanation:**

0 – Normal Material                      3 – Extreme Danger  
1 – Slightly Hazardous                  4 – Deadly  
2 – Hazardous

## SECTION VI – REACTIVITY DATA

**Stability:**                      Hazardous Polymerization:  
Stable: X                      Will Occur:                      Will Not Occur: X

Incompatibility (Materials to Avoid):  
See SECTION IX (Other Precautions.)

Decomposition Products:  
See SECTION IX. (Other Precautions.)

Conditions to be Avoided:  
Avoid exposure to moisture prior to use. Moisture may affect the refractory bonding agent. This product which can lead to premature failure.

Reactivity Rating Explanation:  
0 – Unstable                                  3 – Shock and Heat May Detonate  
1 – Unstable if Heated                      4 – May Detonate  
2 – Violent Chemical Change

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## **SECTION VII – STORAGE, HANDLING AND USE PROCEDURES**

### Normal Storage and Handling:

Use proper procedures for installation and operation. Use good housekeeping to keep dust generation to a minimum. Wear approved respirator. Respirators should be worn during installation and removal of product.

### Steps to be Taken in Case of Leaks or Spills:

Clean up. Avoid breathing dust. Wear approved respirators. Avoid dust generation.

### Waste Disposal Method:

Disposal in accordance with FEDERAL, STATE and LOCAL REGULATIONS.

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## **SECTION VIII – PERSONAL PROTECTION INFORMATION**

Respiratory Protection: As specified in OSHA STD. 29CFR 1910.134

### Ventilation:

General and local exhaust ventilation, engineering controls, and good housekeeping practices are recommended to keep dust concentrations below the permissible exposure limits.

Protective Gloves: Recommended

Eye Protection: Safety Goggles

### Other Protective Clothing and Equipment:

Avoid breathing dust. Wear approved respirator.

## **SECTION IX – SPECIAL PRECAUTIONS**

### Precautions to be Taken in Handling and Storage:

Practice good housekeeping. Store away from moisture and other incompatible materials.

### Other Precautions:

Steam spalling, which can lead to personal injury, may result from improper drying and firing procedures. For safest use and optimum performance, proper practices must be followed. Hydrogen gas could be generated when product is mixed with water. Avoid use of enclosed forms. Ignition of hydrogen gas in an enclosed area can lead to personal injury. Proper ventilation is required to avoid buildup of hydrogen gas.

### Special Rating Explanation (If Applicable).

|              |     |                  |     |
|--------------|-----|------------------|-----|
| Oxidizer     | Oxy | Alkali           | ALK |
| Acid         | ACD | Corrosive        | COR |
| Use No Water | NW  | Radiation Hazard | R   |

NAIF = No Applicable Information Found

N/A = Not Applicable

## **SECTION X – REGULATORY INFORMATION**

### California Safe Drinking Water and Toxic Enforcement Act of 1986:

WARNING: THIS PRODUCT CONTAINS CRYSTALLINE SILICA, A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

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