



# MATERIAL SAFETY DATA SHEET

91/155/EEC-STANDARD

## SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer:**  
Selecto Scientific, Inc.  
3980 Lakefield Court  
Suwanee, GA 30024

**EMERGENCY TELEPHONE NUMBER**  
1-800-635-4017  
1-678-475-0799  
Fax: 1-678-475-1179

SUBSTANCE: SODIUM ALUMINOSILICATE  
BRAND NAME: ALUSIL  
REVISION DATE: April 12, 2004  
PREPARED BY R&D Department

## SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CONCENTRATION	CAS #:	EC NUMBER (EINECS)	RISK PHRASES (R)	SAFETY PHRASES (S)
SODIUM ALUMINO SILICATE	100%	1344-00-9	215-684-8		

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SECTION 3 HAZARDS IDENTIFICATION  
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NFPA RATINGS (SCALE 0-4): HEALTH=1 FIRE=0 REACTIVITY=1  
EC CLASSIFICATION (CALCULATED): Not determined.

EMERGENCY OVERVIEW:

COLOR: white

PHYSICAL FORM: powder

ODOR: odorless

MAJOR HEALTH HAZARDS: No significant target effects reported.

POTENTIAL HEALTH EFFECTS:

INHALATION:

SHORT TERM EXPOSURE: irritation

LONG TERM EXPOSURE: no information on significant adverse effects

SKIN CONTACT:

SHORT TERM EXPOSURE: irritation

LONG TERM EXPOSURE: no information on significant adverse effects

EYE CONTACT:

SHORT TERM EXPOSURE: irritation

LONG TERM EXPOSURE: no information is available

INGESTION:

SHORT TERM EXPOSURE: no information on significant adverse effects

LONG TERM EXPOSURE: no information is available

CARCINOGEN STATUS:

OSHA: N

NTP: N

IARC: N

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SECTION 4 FIRST AID MEASURES  
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INHALATION: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

SKIN CONTACT: Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

EYE CONTACT: Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

INGESTION: If a large amount is swallowed, get medical attention.  
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SECTION 5 FIRE FIGHTING MEASURES  
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FIRE AND EXPLOSION HAZARDS: Negligible fire hazard.

EXTINGUISHING MEDIA: Use extinguishing agents appropriate for surrounding fire.

FIRE FIGHTING: Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.  
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SECTION 6 ACCIDENTAL RELEASE MEASURES  
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OCCUPATIONAL RELEASE:

Collect spilled material in appropriate container for disposal. Keep unnecessary people away, isolate hazard area and deny entry.  
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SECTION 7 HANDLING AND STORAGE  
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Store and handle in accordance with all current regulations and standards.

Keep separated from incompatible substances.

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SECTION 8           EXPOSURE CONTROLS, PERSONAL PROTECTION  
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EXPOSURE LIMITS:

SODIUM SILICOALUMINATE:

  NUISANCE PARTICULATES (NUISANCE DUST):

    5 mg/m<sup>3</sup> OSHA TWA (respirable dust fraction)

    15 mg/m<sup>3</sup> OSHA TWA (total dust)

    10 mg/m<sup>3</sup> ACGIH TWA (inhalable particulate)

    3 mg/m<sup>3</sup> ACGIH TWA (respirable particulate)

    4 mg/m<sup>3</sup> DFG MAK (inhalable dust fraction)

    1.5 mg/m<sup>3</sup> DFG MAK (respirable dust fraction)

    MEASUREMENT METHOD: Particulate filter; Gravimetric; NIOSH IV #  
    0500,

    Nuisance Dust (total), # 0600 (respirable)

VENTILATION: Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

EYE PROTECTION: Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

CLOTHING: Wear appropriate chemical resistant clothing.

GLOVES: Wear appropriate chemical resistant gloves.

RESPIRATOR: Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use. Any dust and mist respirator with a full facepiece. Any air-purifying respirator with a full facepiece and a high-efficiency particulate filter. Any powered, air-purifying respirator with a full facepiece and a high-efficiency particulate filter.

For Unknown Concentrations or Immediately Dangerous to Life or Health -Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.

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SECTION 9           PHYSICAL AND CHEMICAL PROPERTIES  
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PHYSICAL STATE: solid

COLOR: white

PHYSICAL FORM: powder

ODOR: odorless

TASTE: tasteless

BOILING POINT: Not applicable

MELTING POINT: Not available

VAPOR PRESSURE: Not applicable

VAPOR DENSITY: Not applicable

WATER SOLUBILITY: insoluble

PH: 8-10.5

VOLATILITY: Not applicable

ODOR THRESHOLD: Not available

EVAPORATION RATE: Not applicable

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available

SOLVENT SOLUBILITY:

Insoluble: alcohol, organic solvents

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SECTION 10 STABILITY AND REACTIVITY

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CONDITIONS TO AVOID: Avoid generating dust.

INCOMPATIBILITIES: acids, bases

SODIUM SILICOALUMINATE:

ACIDS (STRONG): Incompatible.

ALKALIS (STRONG): Incompatible.

HAZARDOUS DECOMPOSITION:

Thermal decomposition products: oxides of sodium

POLYMERIZATION: Will not polymerize.

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SECTION 11 TOXICOLOGICAL INFORMATION

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SODIUM SILICOALUMINATE:

TOXICITY DATA:

>2.8 mg/l/1 hour(s) inhalation-rat LC50 (Devoe); >31600 mg/kg oral-rat LD50

(Devoe)

ACUTE TOXICITY LEVEL: Insufficient Data.

HEALTH EFFECTS:

INHALATION:

ACUTE EXPOSURE:

SODIUM ALUMINOSILICATE: May cause irritation.

CHRONIC EXPOSURE:

SODIUM ALUMINOSILICATE: Prolonged contact may cause irritation of the mucous membranes.

SKIN CONTACT:

ACUTE EXPOSURE:

SODIUM ALUMINOSILICATE: May cause irritation.

CHRONIC EXPOSURE:

SODIUM ALUMINOSILICATE: Prolonged exposure may cause irritation.

EYE CONTACT:

ACUTE EXPOSURE:

SODIUM ALUMINOSILICATE: May cause irritation.

CHRONIC EXPOSURE:

SODIUM ALUMINOSILICATE: No data available.

INGESTION:

ACUTE EXPOSURE:

SODIUM ALUMINOSILICATE: The LD50 for rats was >31600 mg/kg.

CHRONIC EXPOSURE:

SODIUM ALUMINOSILICATE: No data available.

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SECTION 12 ECOLOGICAL INFORMATION

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ECOTOXICITY DATA:

FISH TOXICITY: 3200000-5600000 ug/L 96 week(s) LC50 (Mortality) Medaka high-eyes (*Oryzias latipes*)

INVERTEBRATE TOXICITY: 320000 ug/L 21 hour(s) NOEC (Reproduction)  
Water flea (*Daphnia magna*)

ALGAL TOXICITY: 180000-320000 ug/L 96 week(s) EC50 (Growth) Blue-green algae (Anacystis aeruginosa)  
OTHER TOXICITY: 1800000-3200000 ug/L 96 day(s) LC50 (Mortality) Clawed toad (Xenopus laevis)

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SECTION 13        DISPOSAL CONSIDERATIONS  
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Dispose in accordance with all applicable regulations.  
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SECTION 14        TRANSPORT INFORMATION  
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No classification assigned.  
LAND TRANSPORT ADR/RID: No classification assigned.  
AIR TRANSPORT IATA/ICAO: No classification assigned.  
MARITIME TRANSPORT IMDG: No classification assigned.  
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SECTION 15        REGULATORY INFORMATION  
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U.S. REGULATIONS:

TSCA INVENTORY STATUS: Y  
TSCA 12(b) EXPORT NOTIFICATION: Not listed.  
CERCLA SECTION 103 (40CFR302.4): N  
SARA SECTION 302 (40CFR355.30): N  
SARA SECTION 304 (40CFR355.40): N  
SARA SECTION 313 (40CFR372.65): N  
SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21):  
  ACUTE: N  
  CHRONIC: N  
  FIRE: N  
  REACTIVE: N  
  SUDDEN RELEASE: N  
OSHA PROCESS SAFETY (29CFR1910.119): N

STATE REGULATIONS:

California Proposition 65: N

EUROPEAN REGULATIONS:

EC NUMBER (EINECS): 215-684-8  
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SECTION 16        OTHER INFORMATION  
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MSDS SUMMARY OF CHANGES

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL-INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. SELECTO SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.