



MATERIAL SAFETY DATA SHEET

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

SUBSTANCES: **PeroxoTitanium Silicate**

BRAND NAME: **PTS 6000**

REVISION DATE: April 2, 2008

PREPARED BY: Technology Department

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CONCENTRATION	CAS #:	EC NUMBER (EINECS)
SODIUM ALUMINO SILICATE	90-95%	1344-00-9	215-684-8
TITANIUM OXIDE	2 to 5%	1317-70-0	215-282-2
HYDROGEN PEROXIDE	1 to 4%	7722-84-1	231-765-0

SECTION 3 HAZARDS IDENTIFICATION

NFPA RATINGS (SCALE 0-4): HEALTH=1 FIRE=0 REACTIVITY=1

EC CLASSIFICATION (CALCULATED): Not determined.

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 or abrasion

LONG TERM EXPOSURE: no information is available

INGESTION:

SHORT TERM EXPOSURE: no information on significant adverse effects

LONG TERM EXPOSURE: no information is available

SECTION 4 FIRST AID MEASURES

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.

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.

SECTION 5 FIRE-FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS: Negligible fire hazard.

EXTINGUISHING MEDIA: Water spray will reduce irritant gases that may be released by other materials involved in the surrounding fire. Regular dry chemical, foam, or CO2 may also be used.

FIRE FIGHTING: Avoid inhalation of dust or combustion products released by other burning materials. Wear full protective clothing and NIOSH-approved self-contained breathing apparatus (SCBA).

Flash Point (°C): N/A (noncombustible).

Autoignition (°C): N/A

Flammability Limits in Air: N/A

Lower Explosive Limit (LEL): N/A

Upper Explosive Limit (UEL): N/A

Flammability Class (OSHA): N/A

Products of Combustion: None.

SECTION 6 ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL RELEASE: Isolate the spill area. Use personal protection (see Section 8). Ventilate and avoid raising dust. Sweep, scoop, or vacuum material and flush residue with water.

DISPOSAL: Refer to Section 13, "Disposal Considerations."

SECTION 7 HANDLING AND STORAGE

STORAGE: Keep in sealed container in a dry, well-ventilated area.
SAFE HANDLING PRECAUTIONS: Wear eye protection and gloves if needed (see Section 8), and avoid contact or inhalation.

SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION

EXPOSURE LIMITS:

OSHA Permissible Exposure Limit (PEL): 15 mg/m³ total dust, 5 mg/m³ respirable

ACGIH Threshold Limit Value (TLV): 10 mg/m³ total dust, 3 mg/m³ respirable

VENTILATION: A good general ventilation system should be sufficient to control airborne levels. If user operations generate dust, use ventilation to minimize exposure.

RESPIRATOR: If necessary, refer to the "NIOSH Guide to the Selection and Use of Particulate Respirators Certified under 42 CFR 84" for selection and use of dust respirators certified by NIOSH.

EYE PROTECTION: Chemical goggles or face shield. The employer should provide an emergency eye wash fountain and safety shower in the work area.

PERSONAL PROTECTION: If contact is unavoidable, wear impervious disposable gloves and appropriate protective clothing. Wash contaminated clothing before re-use.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: solid

COLOR: white

PHYSICAL FORM: powder or granular

ODOR: odorless

TASTE: tasteless

BOILING POINT: Not applicable

MELTING POINT: Not available

VAPOR PRESSURE: Not applicable

VAPOR DENSITY: Not applicable

WATER SOLUBILITY: insoluble

pH: Aqueous suspensions are alkaline (pH = 9-11)

VOLATILITY: Not applicable

ODOR THRESHOLD: Not available

EVAPORATION RATE: Not applicable

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available

SOLVENT SOLUBILITY:

Insoluble: alcohol, organic solvents

SECTION 10 STABILITY AND REACTIVITY

Stable in room temperature.

HAZARDOUS DECOMPOSITION:

Thermal decomposition products: oxygen

POLYMERIZATION: Will not polymerize.

CONDITIONS TO AVOID: Keep container away from sun and heat sources.

SECTION 11 TOXICOLOGICAL INFORMATION

ROUTE OF ENTRY: Inhalation, Skin, and Ingestion

TOXICITY DATA:

Rat, LD50 (oral): N/A

Rat, LC50 (inhalation): N/A

TARGET ORGAN(S): Lungs (fine particulates); eyes (mechanical irritation); kidney and urinary bladder, after long-term ingestion in large amounts.

HEALTH EFFECTS: See Section 3.

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY DATA (related to Sodium Aluminosilicate, a major ingredient for PTS 6000):

Bluegill (*Lepomis macrochirus*), 96-hr lethality testing: No effects at concentrations up to 680 mg/L

Catfish (*Ictalurus punctatus*), 96-hr lethality testing: No effects at concentrations up to 680 mg/L

Fathead minnow (*Pimephales promelas*), 96-hr lethality testing: No effects at concentrations up to 680 mg/L

Oyster (*Crassostrea virginica*), 96-hr lethality testing: No effects at concentrations up to 780 mg/L

Shrimp (*Penaeus duorarum*), 96-hr lethality testing: No effects at concentrations up to 780 mg/L

Pinfish (*Lagodon rhomboides*), 96-hr lethality testing: No effects at concentrations up to 780 mg/L

Environmental Summary: Sodium aluminosilicate are not known to biodegrade or bioaccumulate. Ecotoxicity is low.

SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of according to local, state, and federal regulations. PTS 6000 is not a RCRA hazardous waste.

SECTION 14 TRANSPORT INFORMATION

No classification assigned.
LAND TRANSPORT ADR/RID: No classification assigned.
AIR TRANSPORT IATA/ICAO: No classification assigned.
MARITIME TRANSPORT IMDG: No classification assigned.

SECTION 15 REGULATORY INFORMATION

U.S. REGULATIONS:
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
CANADIAN REGULATIONS:
WHMIS Classification: Not a controlled product; D2B, other toxic effects (respiratory & eye irritation)
WHMIS Ingredient Disclosure List: N/A
EUROPEAN REGULATIONS
EU/EC Classification: XN (harmful); not classified in Annex I of Directive 67/548/EEC
NATIONAL INVENTORY STATUS
U.S. Inventory (TSCA): All components are listed on inventory.

SECTION 16 OTHER INFORMATION

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.

Signature: _____ Dr. Cang Li; **Title:** Director of R&D/QC