



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

BRAND NAME: X-Tend Oil Extender (US Patent No: 6,638,551 B1)

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PREPARED BY Selecto Research and Development

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Silicon dioxide (CAS #: 112926-00-8)

Activated Aluminum Oxide (CAS #: 1344-28-1)

All ingredients are generally recognized as safe (GRAS) for use as processing aids in food production. Please reference FDA "21 CFR 170.3 (o) (24)".

SECTION 3. HAZARDS IDENTIFICATION

Potential Health Effects

Skin contact may cause slight skin irritation; Eye contact may cause eye irritation with discomfort, tearing or blurring of vision.

Inhalation may cause irritation of the upper respiratory tract or temporary lung irritation effects with coughing, discomfort, difficulty breathing or shortness of breath.

Amorphous Silica does not induce the lung effects associated with crystalline silica. Epidemiology studies have not shown any evidence of fibrosis in workers exposed to Amorphous Silica dust levels ranging from 2 to 7 mg/m³.

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

SECTION 4. FIRST AID Measures

First Aid

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

Flush skin with water after contact. Wash contaminated clothing before reuse.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person.

Call a physician.

Notes to Physicians

Activated charcoal mixture may be beneficial. Suspend 50 g activated charcoal in 400 mL water and mix well. Administer 5 mL/kg, or 350 mL for an average adult.

SECTION 5. FIRE FIGHTING Measures

Flash Point: Noncombustible

Flammable limits: not applicable

Extinguishing Media: not applicable

Special fire fighting procedures: not applicable.

SECTION 6. HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing dust. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling.

Handling (Physical Aspects)

Avoid dust generation.

Storage: Protect bags from damage.

SECTION 7. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls

Use only with adequate ventilation. Good general ventilation should be provided to keep dust concentrations below the exposure limits.

Personal Protective Equipment

EYE/FACE PROTECTION

Wear safety glasses or coverall chemical splash goggles.

RESPIRATORS

Wear NIOSH/MSHA approved respiratory protection, as appropriate.

PROTECTIVE CLOTHING

Where there is potential for skin contact have available and wear as appropriate impervious gloves, apron, pants, and jacket.

Exposure Guidelines

Applicable Exposure Limits

Amorphous Silica

PEL (OSHA) : 80 mg/m³ / % SiO₂ - 8 Hr TWA
TLV (ACGIH) : 10 mg/m³, total dust, 8 Hr. TWA
AEL * (DuPont) : 3 mg/m³, 8 Hr. TWA, respirable dust

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

SECTION 8. PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

% Volatiles : 0 %
Solubility in Water : Insoluble
Odor : None.
Form : Solid.
Specific Gravity : ~0.8
Color : Off white

SECTION 9. STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

None reasonably foreseeable.

Decomposition: Decomposition will not occur.

Polymerization: Polymerization will not occur.

SECTION 10. TOXICOLOGICAL INFORMATION

Animal Data

Amorphous Silica:

Oral LD50: >10,000 mg/kg in rats

Animal testing indicates Amorphous Silica is a mild eye irritant. It is a negligible to slight skin irritant when tested as a 50% aqueous paste. The dust is not expected to be a skin irritant. Animal testing indicates Amorphous Silica is not a skin sensitizer. Single, repeated and long-term exposure by ingestion to Amorphous Silica caused no significant toxicological effects. Single exposure by inhalation to Amorphous Silica caused no significant toxicological effects. Repeated exposure caused pulmonary changes including reversible inflammation. Long-term exposure caused pulmonary changes including reversible inflammation, vascular obstruction and emphysema. Animal testing indicates Amorphous Silica does not have carcinogenic or reproductive effects. No animal data are available to define the developmental toxicity of Amorphous Silica. Amorphous Silica has not produced genetic damage in bacterial cultures. It has not been tested for genetic toxicity in mammalian cell cultures or in animals. Aluminum hydroxide is untested for skin and eye irritancy, and is untested for skin sensitization in animals. Toxicity described in

animals include growth impairment, and bone changes due to phosphate depletion but ingestion of phosphate eliminates these changes. Otherwise no evidence of toxicity was noted from ingestion of the compound. Guinea pigs exposed by inhalation exhibited no evidence of injurious effects but did show progressive accumulation of aluminum in the lungs. No animal test reports are available to define carcinogenic, mutagenic, developmental, or reproductive hazards.

SECTION 11. DISPOSAL CONSIDERATIONS

Environmental Hazards

No adverse effects known or suspected. Not a RCRA hazardous substance.

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

SECTION 12. TRANSPORTATION INFORMATION

Shipping Information

DOT/IMO

Proper Shipping Name: Not Regulated

SECTION 13. OTHER INFORMATION

NFPA, NPCA-HMIS

NPCA-HMIS Rating

Health : 1

Flammability : 0

Reactivity : 0

Personal Protection rating to be supplied by user depending on Use conditions.