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## Microtracer 4.5% Selenium on Sand

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### Section I – Company Information

**Manufacturer's Name:**

Micro-Tracers, Inc.

**Emergency Telephone Number:**

CHEMTEL: 1-800-255-3924 or 813-248-0585

**Address:**1370 Van Dyke Avenue  
San Francisco, CA 94124  
USA**Contact Numbers for Information:**

Tel: 415-822-1100 / Fax: 415-822-6615

**Website:**

www.microtracers.com

**Signature of Preparer: (on file)**

David A. Eisenberg

**Date Prepared:**

July, 2013

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### Section II – Product Information

<b>Product Identification:</b>	<b>Product Description:</b> A source of the element selenium for use in manufacturing animal, poultry and aquatic feeds. <b>Chemical Name:</b> Selenites <b>Hazard Class Number:</b> 6.1 <b>UN Identification Number:</b> UN2630 <b>Marine Pollutant:</b> Yes <b>Packaging Group:</b> I <b>E.M.S. No.:</b> 6.1-04
<b>Composition:</b>	Sand (Silica): 90% Sodium Selenite: 10% (CAS # 10102-18-8) Food Grade Vegetable Oil: approx 1%
<b>Hazard Identification:</b>	<b>Acute Health Effects:</b> Dust may irritate eyes. <b>Chronic Health Effects:</b> None <b>Signs/Symptoms of Exposure:</b> Skin may become discolored due to contact. <b>Routes of Exposure:</b> Skin Contact, inhalation and eyes.

	<p><b>Target Organs:</b> Skin, eyes</p> <p><b>Medical Conditions Aggravated by Exposure:</b> None known</p> <p><b>Carcinogenic Status:</b> Not listed or regulated by IARC, NTP, OSHA or ACGIH</p>												
<b>First Aid Measures:</b>	<p><b>Eye contact:</b> with clean water and Isotonic saline for 20 minutes. Contact physician.</p> <p><b>Skin contact:</b> AVOID SKIN CONTACT. If skin contact occurs, remove contaminated clothing and wash with excess water. If dermatitis occurs, consult a physician and avoid further exposure.</p> <p><b>Inhalation:</b> DO NOT INHALE. This product is specifically designed to be non-dusty but selenium dust should not be inhaled. If inhalation occurs, move to fresh air. Sit upright. Consult a physician.</p> <p><b>Ingestion:</b> DO NOT INGEST THIS PRODUCT in its pure form, may cause nausea, vomiting, garlic odor on tongue. If ingestion occurs, rinse mouth with excess water. Drink excess water. Consult a physician.</p>												
<b>Fire Fighting Measures:</b>	<p><b>Fire and Explosive Properties:</b> This product is not known to present any fire or explosive hazard.</p> <p><b>Extinguishing media:</b> Carbon dioxide or foam greatly preferred. Water only if necessary.</p>												
<b>Accidental Release Measures:</b>	<p><b>Cleanup Technique:</b> Wearing protective clothing, sweep into resealable metal container or pail and dispose of as hazardous waste. Wear cotton gloves, coveralls and a dust mask or if a large spill occurs (more than 1-kilo) preferably a suitable respirator (i.e. Norton Co, Cranston, Rhode Island #7680, Filter 7500-8</p>												
<b>Handling and Storage:</b>	<p>Store in a cool, dry place. DO NOT INGEST, INHALE OR MAKE SKIN OR EYE CONTACT. If such contact occurs, follow procedures outlined in "First Aid Measures".</p> <p>Keep partially used containers securely sealed as the product is hygroscopic and will cake if exposed to atmospheric moisture.</p>												
<b>Exposure Controls/ Personal Protection:</b>	<table border="1"> <thead> <tr> <th colspan="4"><b>Exposure Limits</b></th> </tr> <tr> <th></th> <th>OSHA PEL</th> <th>ACGIH TLV</th> <th>Other</th> </tr> </thead> <tbody> <tr> <td>Microtracer 4.5% Selenium on Sand</td> <td>2mg/m3</td> <td>2mg/m3</td> <td>7mcg/kg (rat LD/50)</td> </tr> </tbody> </table> <p>* This product is documented as being less than 10% as dusty as pure sodium selenite. Exposure limits</p>	<b>Exposure Limits</b>					OSHA PEL	ACGIH TLV	Other	Microtracer 4.5% Selenium on Sand	2mg/m3	2mg/m3	7mcg/kg (rat LD/50)
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	<p>are calculated on this basis.</p> <p><b>Engineering Controls:</b> Always provide effective exhaust and dust control. Workers must not be exposed to dust from this product on a continuing basis.</p> <p><b>Eye protection:</b> Wear safety glasses suitable to keeping dust from eyes.</p> <p><b>Skin protection:</b> Wear protective cotton gloves.</p> <p><b>Respiratory protection:</b> At a minimum, wear a dust mask. Preferably, wear a respirator as described in #6.</p>
<b>Physical/Chemical Properties:</b>	<p><b>Form:</b> Uniformly sized particles (range 150-600 microns)</p> <p><b>Appearance:</b> Off-white to light brown</p> <p><b>Solubility:</b> The sodium selenite has a solubility of 47mg/100ml at 25 degrees C. The sand and vegetable oil are water insoluble.</p> <p><b>Boiling range:</b> Not applicable</p> <p><b>pH:</b> Not available</p> <p><b>Vapor Pressure:</b> Negligible</p> <p><b>Vapor Density:</b> Not applicable.</p> <p><b>Melting point:</b> Sodium selenite decomposes at 600 degrees C <b>Evaporation rate:</b> Not applicable.</p> <p><b>Flash point:</b> Not applicable. None of the major components (sand and sodium selenite) are flammable.</p>
<b>Stability:</b>	<p><b>Stability:</b> This product is stable for a minimum of two years in its original packing. It will cake on exposure to atmospheric moisture.</p> <p><b>Incompatibility:</b> Mineral acids or oxidizing agents.</p> <p><b>Hazardous polymerization:</b> Will not occur.</p>
<b>Regulatory:</b>	<p>This product is a diluted source of the element selenium for use as a nutrient in animal, poultry and aquatic feeds. In the USA, selenium may be added to feeds at not more than 0.3ppm (0.3 grams/metric tonne) and if added must be as an ingredient in a premix or salt-mineral mixture.</p>

Updated ZE 07/11/13