

**Material Safety Data Sheet****Material Name: TB-GOLD****ID: TBA-002****\*\*\* Section 1 - Chemical Product and Company Identification \*\*\*****Chemical Name: OPTIGOLD™**

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**\*\*\* Section 2 - Composition / Information on Ingredients \*\*\***

CAS #	Component	Stability
Not Available	Non-hazardous components	Stable

**Component Information/Information on Non-Hazardous Components**

This product contains no known hazardous ingredients as defined under 29 CFR 1910.1200 (Hazard Communication).

**\*\*\* Section 3 - Hazards Identification \*\*\*****Emergency Overview**

This product is found in the form of a viscous, brown liquid. This product may be irritating to the eyes and respiratory system. Protect eyes, skin, and mucous membranes.

**Potential Health Effects: Eyes**

This product may cause some eye irritation, with stinging, redness or tearing.

**Potential Health Effects: Skin**

No skin irritation can be expected from single short-term exposure to this product. Prolonged or repeated contact may produce some irritation. may cause skin to fluoresce under fluorescent light.

**Potential Health Effects: Ingestion**

Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Potential Health Effects: Inhalation**

Excessive inhalation of processing mists or vapors from this material may cause headache, dizziness, nausea and incoordination.

**Medical Conditions Aggravated by Exposure**

Chronic respiratory or skin conditions may temporarily worsen from exposure to this product.

**HMIS Ratings: Health: 1 Fire: 1 Reactivity: 0 Pers. Prot.:** safety glasses/gloves

**Hazard Scale:** 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

**\*\*\* Section 4 - First Aid Measures \*\*\*****First Aid: Eyes**

In case of contact with eyes, rinse immediately with plenty of water for 15 minutes and seek medical advice. If irritation persists get medical attention.

**First Aid: Skin**

For skin contact, promptly wash with soap and water. If irritation develops, get medical attention.

**First Aid: Ingestion**

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting unless instructed to do so by medical personnel.

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**Material Name:** TB-GOLD**ID:** TBA-002**First Aid: Inhalation**

If inhaled, remove immediately to fresh air. If symptoms develop or persist, seek immediate medical attention.

**First Aid: Notes to Physician**

Provide general supportive measures and treat symptomatically.

**\*\*\* Section 5 - Fire Fighting Measures \*\*\*****Flash Point:** None**Method Used:** Not applicable**Upper Flammable Limit (UFL):** None**Lower Flammable Limit (LFL):** None**Auto Ignition:** Not applicable**Flammability Classification:** N.D.**Rate of Burning:** N.D.**General Fire Hazards**

Do not store or mix with oxidizers. Fire fighters should wear full protective clothing and SCBA when potential for exposure to products of combustion exists. On burning, carbon, nitrogen and sulfur can be evolved.

**Hazardous Combustion Products**

Decomposition of this product may carbon monoxide, carbon dioxide, oxides of sulfur, and nitrogen and/or low molecular weight hydrocarbons.

**Extinguishing Media**

Use any media suitable for the surrounding fires.

**Fire Fighting Equipment/Instructions**

Firefighters should wear full protective gear. Firefighters should avoid inhaling any combustion products.

**NFPA Ratings: Health:** 1 **Fire:** 1 **Reactivity:** 0**Hazard Scale:** 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe**\*\*\* Section 6 - Accidental Release Measures \*\*\*****Containment Procedures**

Stop the flow of material.

**Clean-Up Procedures**

Shovel the material into waste container. Surfaces may become slippery after spillage. If it cannot be reused, place in covered container for disposal. Absorb spilled material with nonflammable inert absorbent.

**Evacuation Procedures**

None necessary.

**Special Procedures**

None necessary.

**\*\*\* Section 7 - Handling and Storage \*\*\*****Handling Procedures**

Avoid getting this material into contact with your skin and eyes. Avoid breathing vapors or mists of this product. Use this product with adequate ventilation. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

**Storage Procedures**

Keep this material in a cool, well-ventilated place. Avoid freezing.

**\*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\***

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No exposure limits established for the product. Keep formation of mists or vapors to a minimum.

**C: Component Exposure Limits**

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

**Engineering Controls**

Under normal handling and use conditions of this product, exposure to hazardous ingredients is unlikely due to product form.

**PERSONAL PROTECTIVE EQUIPMENT****Personal Protective Equipment: Eyes/Face**

Wear safety glasses; chemical splash goggles.

**Personal Protective Equipment: Skin**

Wear rubber gloves

**Personal Protective Equipment: Respiratory**

Under normal conditions, respirator is not normally required but suggested.

**Personal Protective Equipment: General**

Use good industrial hygiene practices in handling this material.

**\*\*\* Section 9 - Physical & Chemical Properties \*\*\*****Appearance:**Viscous, brown**Odor:**None**Physical State:**Liquid**pH:**9-10**Vapor Pressure:**Not available**Vapor Density:**Not available**Boiling Point:(°C) (ca 100)****Melting Point:(°C) (< 10)****Solubility (H2O):**Miscible**Specific Gravity:**1**Physical Properties: Additional Information**

None identified.

**\*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*****Chemical Stability**

Stable under normal conditions.

**Chemical Stability: Conditions to Avoid**

None identified.

**Incompatibility**

This product may react strong oxidizing agents.

**Hazardous Decomposition**

Decomposition of this product may carbon monoxide, carbon dioxide, oxides of sulfur, and nitrogen and/or low molecular weight hydrocarbons.

**Hazardous Polymerization**

Hazardous polymerization will not occur.

**Material Safety Data Sheet****Material Name: TB-GOLD****ID: TBA-002****\*\*\* Section 11 - Toxicological Information \*\*\*****Acute and Chronic Toxicity****A: General Product Information**

LD50 (oral, rat) &gt;2000 mg/kg (estimated)

**B: Component Analysis - LD50/LC50**

LD50 (oral, rat) &gt;2000 mg/kg (estimated)

**Carcinogenicity****A: General Product Information**

No OSHA hazardous components. Not known to be a carcinogen, teratogen or mutagen.

**B: Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

**Epidemiology**

No data available for this product.

**Neurotoxicity**

No data available for this product.

**Mutagenicity**

No data available for this product.

**Teratogenicity**

No data available for this product.

**Other Toxicological Information**

None available.

**\*\*\* Section 12 - Ecological Information \*\*\*****Ecotoxicity****A: General Product Information**

No data available for this product.

**B: Component Analysis - Ecotoxicity - Aquatic Toxicity**

No ecotoxicity data are available for this product's components.

**Environmental Fate**

No data available for this product.

**\*\*\* Section 13 - Disposal Considerations \*\*\*****US EPA Waste Number & Descriptions****A: General Product Information**

Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA. Wastes should be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of a hazardous waste. Do not discharge into drains or waterways.

**B: Component Waste Numbers**

No EPA Waste Numbers are applicable for this product's components.

**Disposal Instructions**

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

**\*\*\* Section 14 - Transportation Information \*\*\*****US DOT Information****Shipping Name:** Not regulated**Hazard Class:** Not classified

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**UN/NA #:** Not classified  
**Packing Group:** Not classified  
**Required Label(s):** None  
**Additional Info.:** None

**International Transportation Regulations**  
Not regulated as dangerous goods.

**\*\*\* Section 15 - Regulatory Information \*\*\*****US Federal Regulations****A: General Product Information**

No additional information.

**B: Component Analysis**

None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

**State Regulations****A: General Product Information**

No additional information.

**B: Component Analysis - State**

None of this product's components are listed on the state lists from CA, FL, MA, MN, NJ, or PA.

**Component Analysis - WHMIS IDL**

No components are listed in the WHMIS IDL.

**Additional Regulatory Information****A: General Product Information**

No information available for the product.

**\*\*\* Section 16 - Other Information \*\*\*****Other Information**

The information contained in this material is, to our best knowledge, true and accurate, but all recommendations or suggestions are made without guarantee, since the conditions of use are beyond our control. It is the user's responsibility to determine the safety, toxicity and suitability for his own use of the product described herein.

BYRON SWETLAND disclaims any liability incurred in connection with the use of these data or suggestions.

**Key/Legend**

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; NFPA = National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act

This is the end of MSDS # TBA-002