TECHNIC, INC. SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product Name: GOLD POWDER 405 Product Code: 12-405 Recommended use: Conductive filler; for industrial use only. Supplier: Technic Inc. 1 Spectacle Street Cranston, RI 02910 USA Telephone no: 401-781-6100 Emergency no: ChemTrec 800-424-9300, Outside the USA and Canada 703-527-3887

SECTION 2. HAZARD IDENTIFICATION

Classification:

Flammable Liquids, Category 3 Skin Corrosion/Irritation, Category 2 Eye Damage/Irritation, Category 2A Acute Aquatic Toxicity, Category 2 Chronic Aquatic Toxicity, Category 2

Label elements and precautionary statements:

Signal word: Warning



Hazards not otherwise classified: None

Hazard statement(s):

Flammable liquid and vapor Causes skin irritation Causes serious eye irritation Toxic to aquatic life with long lasting effects

Precautionary statement(s):

Keep away from heat, sparks, open flames and hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves, clothing and eye and face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
In case of fire: Use water to extinguish.
Store in a well-ventilated place. Keep cool.
Wash hands thoroughly after handling.
If on skin: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/attention.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Avoid release to the environment.
Dispose of contents and container in accordance with local, state and federal regulations.

SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical name

Gold (metallic) Pine oil **CAS Number** 7440-57-5 8006-64-2 EINECS Number 231-165-9 232-350-7 **Concentration** 80 – 95 % 5 – 15 %

SECTION 4. FIRST AID MEASURES

Inhalation:

Remove patient to fresh air. Support breathing if required. Obtain medical treatment for dizziness, unconsciousness or irritation or difficulty in breathing.

Skin contact:

Remove contaminated clothing and wash affected area thoroughly with soap and water. Launder clothing before rewearing. Seek medical attention for prolonged skin irritation.

Eye contact:

Flush with water, including under lids, for fifteen minutes. Obtain immediate medical attention.

Ingestion:

If patient is conscious, rinse mouth and drink at least two large glasses of water. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Obtain immediate medical attention.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use media appropriate for surrounding fire such as foam, extinguishing powder, carbon dioxide or water spray. In case of fire, cool endangered containers with water spray.

Unsuitable extinguishing media: High pressure water jet.

Specific hazards in case of fire: May release unknown toxic combustion products.

Special protective equipment and precaution for fire fighters: For fires in enclosed areas, wear self-contained breathing apparatus and full protective gear. Do not inhale combustion gases.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear appropriate skin, eye and respiratory protection. Do not eat, drink or smoke while cleaning up. Ensure adequate ventilation.

Methods and materials for containment and cleaning up:

Wear appropriate personal protective gear including eye, skin and respiratory protection. Contain spilled material and collect by absorption or other suitable method. Flush spill area with water. Do not allow this material or its rinsings to enter storm or sanitary sewers or other waterways. (See also Section 13).

Environmental precautions:

Prevent spills and rinsings from entering storm or sanitary sewers or other waterways and contact with soil.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with eyes. Avoid prolonged repeated skin contact and breathing mists or vapors. Use in well-ventilated area. Do not empty waste into sanitary drains.

Conditions for safe storage, including incompatibilities:

Store in a cool, dry area. Use with adequate ventilation. Keep container tightly closed when not in use. Store only in the original container.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:

Ingredient Pine oil ACGIHTLV 20 ppm TWA OSHA PEL 100 ppm Other Limits 100 ppm NIOSH REL

Appropriate engineering controls:

Use in well-ventilated area with local exhaust.

Respiratory protection:

Wear appropriate, approved respiratory protection when ventilation is inadequate to meet exposure limits.

Eye protection:

Chemical splash goggles or safety glasses with side shields must be worn.

Skin protection:

Wear rubber or neoprene gloves. Wear rubber apron and long sleeves to prevent skin contact. Wash hands thoroughly with soap and water after handling and before eating or smoking.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Metal powder in solvent Color: Gold metal powder; clear, colorless solvent **Odor:** Pungent Odor threshold: Not available **pH**: Not applicable Melting/freezing point: Not determined Initial boiling point: 153 – 175 °C (307 – 347 °F) solvent Flash point: 36 °C (97 °F) closed cup (solvent) Evaporation rate: Not available Flammability (solid, gas): Not determined **Upper/lower explosion limits:** 6%/0.8% (solvent) Vapor pressure: Not determined Vapor density: Not determined Relative density (H₂O = 1) @25 °C: 0.86 (solvent) Solubility: 0.35 g/l in water at 20 °C (solvent) Partition coefficient octanol/water: Not determined Auto-ignition temperature: 270 °C (518 °F) (solvent) Decomposition temperature: Not available Viscosity: Not determined

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Stable, non-reactive when stored and used according to recommendations.

Chemical stability: No decomposition if used according to specifications.

Possibility of hazardous reactions: Solvent vapors may form explosive mixtures with air. **Conditions to avoid:** Heat, flames and sparks.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Unknown hydrocarbon decomposition powders.

SECTION 11. TOXICOLOGICAL INFORMATION

Routes of Exposure and Symptoms

Inhalation: Causes mild, non-specific irritation of respiratory passages. Prolonged overexposure may cause sensitization and asthmatic effects. Aspiration may cause lung damage.

- Ingestion: Non-specific symptoms may occur due to presence of particulate material. Solvent may cause gastric irritation with nausea, vomiting and diarrhea.
- **Skin Contact:** Solvent may cause skin irritation. Particles cause irritation to skin and mucous membranes.
- **Eye Contact:** Particles are extremely irritating to eyes. Solvent may cause temporary eye irritation.

Acute and Chronic Effects from Short- and Long-term Exposure:

See Routes of Exposure and Symptoms above.

Acute Oral Toxicity: LD50: 5760 mg/kg (rat, pine oil)

Acute Dermal Toxicity: No applicable information available.

Acute Inhalation Toxicity: No applicable information available.

Acute Eye Irritation: Pine oil causes eye irritation. Dermal Irritation: Pine oil causes skin irritation.

Carcinogen Listings:

IARC: No NTP: No

OSHA: No

Reproductive Effects: No applicable information available.

Target Organ Effects: No applicable information available.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity: LC50: 29 mg/l, 96 hours (Zebra fish, pine oil) EC50: 6.4 mg/l, 48 hours (Daphnia magna, pine oil) EC50: 17.1 mg/l, 72 hours (Green algae, pine oil)

Persistence and degradability: There are no data reported for this material; however, this product is harmful to aquatic life.

Bio-accumulative potential: There are no data reported for this material.

Mobility in soil: Accidental spillage may lead to penetration in the soil and groundwater. Improper handling and disposal of this material may cause environmental damage.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal:

Disposal of this material is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

SECTION 14. TRANSPORT INFORMATION

Classification for shipment by road or rail, sea (IMDG) and air (IATA/ICAO):

UN proper shipping name: Flammable Liquids, N.O.S.

	(Contains Pine Oil)
UN number:	UN1993
Transport hazard class:	3
Packing group:	111

Marine Pollutant: No

SECTION 15. REGULATORY INFORMATION

Inventory Status:

All components are on TSCA, EINECS/ELINCS, AICS, and DSL. U.S. Regulations:

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:

SARA (311/312) HAZARD CATEGORIES:

___None <u>X</u>Immediate ___Delayed <u>X</u>Fire ___Reactive ___Pressure generating

SARA 313: This product contains the following SARA 313 Toxic Release Chemicals.Chemical NameCAS NumberNone

The following product components are cited on the lists below:Chemical NameCAS NumberNoneCalifornia Proposition 65 List

SECTION 16. OTHER INFORMATION

VOC (Volatile Organic Compounds): Pine oil (5 – 15%)

HMIS Ratings:

Health: 2 Flammability: 3 Reactivity: 0 Personal Protection: C

Prepared by: Allan H. Reed

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This SDS contains revisions in the following section(s): 2,3.

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End of Safety Data Sheet