

# TECHNIC, INC.

## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

**Product Name:** GOLD POWDER 407

**Product Code:** 12-407

**Recommended use:** Conductive filler; for industrial use only.

**Supplier:**

Technic Inc.  
1 Spectacle Street  
Cranston, RI 02910 USA

**Current SDS preparation date:** October 19, 2015

**Original SDS preparation date:** October 19, 2015

**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 2

Eye Damage/Irritation, Category 2A

Specific Target Organ Toxicity (Single Exposure), Category 3

**Label elements and precautionary statements:**

**Signal word:** Danger

**Pictogram(s):**



**Hazards not otherwise classified:** None

**Hazard statement(s):**

Highly flammable liquid and vapor

Causes serious eye irritation

May cause drowsiness or dizziness

**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.

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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.

Avoid breathing dust, fume, gas, mist, vapors or spray.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Dispose of contents and container in accordance with local, state and federal regulations.

### SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical name	CAS Number	EINECS Number	Concentration
Gold (metallic)	7440-57-5	231-165-9	90%
Isopropanol	67-63-0	200-661-7	10%

### 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 emit toxic fumes under fire conditions.

**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:**

Extinguish all sources of ignition and wear protective gear including respiratory protection. Confine spill. If spill is large, pump as much liquid as possible into suitable containers for disposal. Absorb small spills and spill residues with non-flammable material (sand, clays, etc.) Shovel into containers and treat as solid waste. Incinerate in accordance with local, state and federal regulations. Do not allow this material 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:**

<u>Ingredient</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>Other Limits</u>
Isopropanol	200 ppm TWA 400 ppm STEL	400 ppm	400 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:** Alcoholic  
**Odor threshold:** Not available  
**pH:** Not applicable  
**Melting/freezing point:** Not determined  
**Initial boiling point:** 82 °C (180 °F) solvent  
**Flash point:** 12 °C (53 °F) solvent  
**Evaporation rate:** Not available  
**Flammability (solid, gas):** Not applicable  
**Upper/lower explosion limits:** 12.7%/2.0% solvent  
**Vapor pressure:** Not determined  
**Vapor density:** 2.1  
**Relative density (H<sub>2</sub>O = 1) @25 °C:** 0.79 solvent  
**Solubility:** Completely soluble in water at 20 °C solvent  
**Partition coefficient octanol/water:** Not determined  
**Auto-ignition temperature:** 399 °C (750 °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:** Vapor may form explosive mixture with air.  
**Conditions to avoid:** Heat, flames, sparks, high temperatures and direct sunlight.  
**Incompatible materials:** Concentrated acids and oxidizing agents.  
**Hazardous decomposition products:** Carbon monoxide and carbon dioxide.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Routes of Exposure and Symptoms

**Inhalation:** Vapor or mist may cause irritation to nose and throat.  
**Ingestion:** May cause abdominal discomfort, nausea, vomiting and diarrhea.  
**Skin Contact:** Brief contact is usually not irritating. Prolonged contact may cause irritation and redness.  
**Eye Contact:** Causes serious eye injury with possible corneal burns.

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

See Routes of Exposure and Symptoms above.

**Acute Oral Toxicity:** LD50: 5045 mg/kg (rat, isopropanol)  
**Acute Dermal Toxicity:** LD50: 12,800 mg/kg (rabbit, isopropanol)  
**Acute Inhalation Toxicity:** LCLo: 12,800 ppm, 3 hours (mouse, isopropanol)  
**Acute Eye Irritation:** 10 mg, moderate (rabbit, isopropanol)  
**Dermal Irritation:** 500 mg, mild (rabbit, isopropanol)

**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: 9640 mg/l, 96 hours (Fathead minnow, isopropanol)  
EC50: 5102 mg/l, 24 hours (Daphnia magna, isopropanol)

**Persistence and degradability:** There are no data reported for this material.

**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):**

<b>UN proper shipping name:</b>	Flammable Liquids, N.O.S. (Isopropanol, Metallic Mixture)
<b>UN number:</b>	UN1993
<b>Transport hazard class:</b>	3
<b>Packing group:</b>	II

**Marine Pollutant:** No

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## 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  Immediate  Delayed  Fire  Reactive  Pressure generating

**SARA 313:** This product contains the following SARA 313 Toxic Release Chemicals.

<b>Chemical Name</b>	<b>CAS Number</b>	<b>Concentration</b>
None		

The following product components are cited on the lists below:

<b>Chemical Name</b>	<b>CAS Number</b>	<b>List Citations</b>
None		California Proposition 65 List

## SECTION 16. OTHER INFORMATION

**VOC (Volatile Organic Compounds):** Isopropanol, 10%

**HMIS Ratings:**

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

**Prepared by:** Allan H. Reed

**SDS Preparation date:** October 19, 2015

**Supersedes previous version:** New SDS

This SDS contains revisions in the following section(s): Not applicable. New SDS

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End of Safety Data Sheet