



# THIO-GOLD<sup>®</sup> SERIES

FOR GOLD LEACHING





**Thio-Gold® Series Products** are aqueous thiosulfate solutions that effectively act as lixiviation agents in gold leaching applications. Tessenderlo Kerley holds numerous patents for thiosulfate applications. Thio-Gold® is an environmentally friendly and safe alternative to cyanidation in gold processing.

- **Technological advantages:**
  - Lower to null toxicity
  - Greater efficiency with gold deposits associated with preg-robbing ores.
- **Performance:** Thio-Gold® works in stirred tank reactors and heaps
- **Similarities:** The size and type of equipment needed for Thio-Gold® leaching is similar to conventional cyanide leaching systems.

## WHY USE THIO-GOLD®?

- **Eco-friendly:** Reduces the impact on the environment compared to the cyanidation process
- **Safe:** Thio-Gold® leaching process is alkaline, so there are no concerns with corrosion and materials used in construction
- **Alternative:** Can be used where cyanide is not permitted

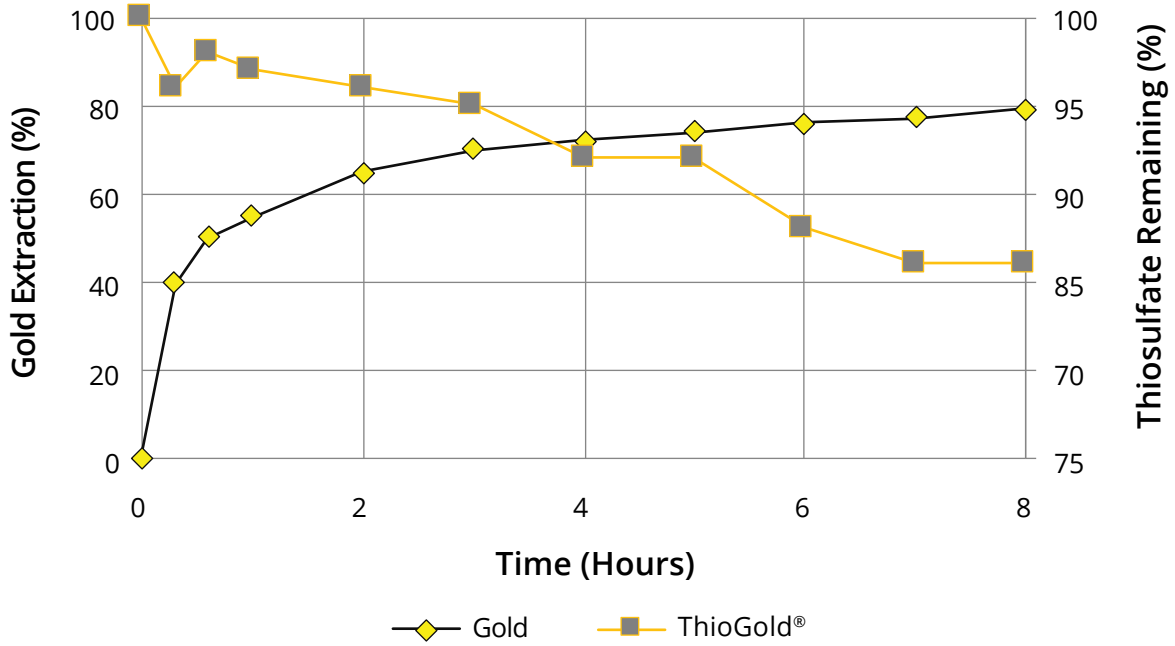
## TYPICAL PROPERTIES

Active Ingredient	50% - 60%
Relative Density	1.32 - 1.35
Approximate Weight per US Gallon	11.1 lbs
pH	7 - 8
Vapor Pressure	18 mm Hg @ 70°F
Freezing Point	30°F - 60°F
Boiling Point	210°F - 220°F
Color	Colorless to Yellow

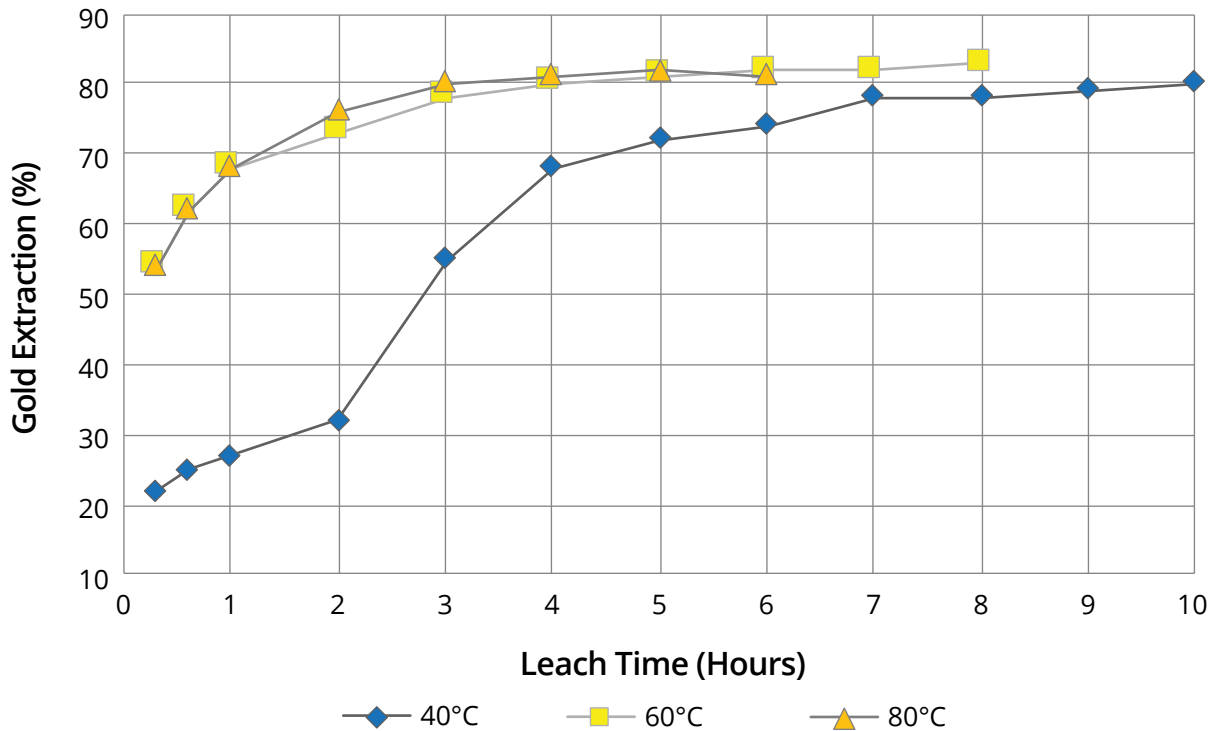
NFPA :            Health – 0            Flammability – 0            Reactivity - 0

\*temperatures [up to 49°C (120°F)]

## Gold Leaching with Ammonium Thiosulfate\*



## Temperature Influence\*



\*US Patent 6,660,059 B2

## PACKAGING AND HANDLING

- Thio-Gold® is a water-based liquid, available in bulk tank trucks or railcars
- Store out of direct sunlight at moderate temperatures
- Use in well ventilated areas
- Wash thoroughly after handling
- Avoid contact with skin and eyes
- Observe all safety precautions show on the product label and in the safety data sheet

Materials of construction suitable for storing and handling Thio-Gold®:

- Stainless Steel
- Polypropylene
- Polyethylene

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Thio-Gold is a trademark of Tessenderlo Kerley, Inc.

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