

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name **Prolong Gold Anti Fade Reagent**
Product Number **9071**
Identified Uses For Research Use Only (RUO). Not intended for use in humans or animals.
 Not intended for therapeutic or diagnostic procedures.

Manufacturer/Supplier Cell Signaling Technology, Inc.
 3 Trask Lane
 Danvers, MA 01923 USA
Phone #: 978-867-2300

2. HAZARDS IDENTIFICATION
Emergency Overview

OSHA Hazards
 No known OSHA hazards.

GHS Classification
 Not a dangerous substance according to GHS.

Potential Health Effects
Acute Toxicity

Eyes	May cause eye irritation in susceptible persons.
Skin	May cause skin irritation in susceptible persons.
Inhalation	May be harmful by inhalation.
Ingestion	May be harmful if swallowed.

Target organ effects No information available

Chronic Effects

Carcinogenic effects	No information available
Mutagenic effects	No information available
Reproductive toxicity	No information available
Sensitization	No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS
Hazardous Ingredients

Chemical Name	CAS No.	Concentration
Glycerol	56-81-5	15-40%
Sodium azide	26628-22-8	<0.1%

4. FIRST AID MEASURES

Eye Contact Rinse immediately with plenty of water for at least 15 minutes. Get medical attention.
Skin Contact Rinse immediately with soap and plenty of water. Get medical attention immediately.

Inhalation Move to fresh air. Get medical attention.
Ingestion Never give anything by mouth to an unconscious person. Rinse mouth with water.
Notes to physician Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash Point See Section 9. Physical and Chemical Properties
Suitable Extinguishing Media Use dry chemical, water spray, alcohol resistant foam or carbon dioxide.
Special exposure hazards Hazardous decomposition products formed under fire conditions –toxic gases can be evolved.
Special protection for fire fighters Wear self-contained breathing apparatus and protective unit
Other information No data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Avoid contact with skin, eyes, clothing.
Environmental precautions Prevent further leakage or spillage if safe to do so.

7. HANDLING AND STORAGE

Safe handling advice Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.
Storage conditions Keep container tightly closed in cool dry place.
Incompatibilities No data available
Specific end uses No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION
Exposure Limits

Chemical Name	OSHA PEL (TWA)	OSHA PEL (ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Glycerol	15 mg/m ³ total 5 mg/m ³	-	10 mg/m ³	-

Exposure Controls

Apply technical measures to comply with the occupational exposure limits.

Engineering Controls

Emergency eyewash and safety shower. Mechanical exhaust required.

Hygiene Measures

Do not eat, drink or smoke when handling product. Wash hands thoroughly after handling product. Wash contaminated clothing before reuse.

Personal Protective Equipment

Respiratory Protection: In case of insufficient ventilation wear suitable respiratory equipment.
Eye Protection: Safety glasses with side shields
Skin and body protection: Wear suitable protective clothing, protective shoes or boots.
Hand protection: Compatible chemical resistant gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES
Information on basic physical and chemical properties

Physical State	liquid
Appearance	no data available
Odor	no data available
pH	no data available
Melting point/freezing point	no data available
Boiling point	no data available
Evaporation rate	no data available
Flash point	no data available
Autoignition temperature	no data available
Flammability limits in air	no data available
Explosive properties	no data available
VOC content	no data available
Decomposition temperature	no data available

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions/Materials to avoid	Metals.
Hazardous decomposition products	None under normal use.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated.

Chemical Name	LD50 Oral, rat, mouse	LD50 dermal rat/rabbit	LC50 inhalation, rat/mouse
Glycerol	12,600 mg/kg	21,900 mg/kg	1 hr > 570 mg/m ³
Sodium azide	27 mg/kg (rat)	No data available	No data available

Routes of Exposure
Potential Health Effects
Acute Toxicity

Eyes	May cause eye irritation in susceptible persons.
Skin	May cause skin irritation in susceptible persons.
Inhalation	May be harmful by inhalation.
Ingestion	May be harmful if swallowed.

Target organ effects No information available

Chronic Effects

Carcinogenic effects	No information available
Mutagenic effects	No information available
Reproductive toxicity	No information available
Sensitization	No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity The environmental impact of this product has not been fully investigated.

Persistence and degradability	Inherently biodegradable.
Bioaccumulation	Does not bioaccumulate.
Mobility	No data available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	Dispose of in accordance with all applicable environmental laws and regulations.
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14. TRANSPORT INFORMATION

IATA/DOT

This product is considered non-hazardous for transport

15. REGULATORY INFORMATION

OSHA Hazards

No known OSHA hazards.

International Inventories

TSCA	-
DSL/NDSL	-
EINECS/ELINCS	-
ENCS	-
IECSC	-
KECL	-
PICCS	-
AICS	-
NZIoC	-

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPs) under Section 112 of the Clean Air Act Amendments of 1990.

U.S. State Regulations

This product is not listed under State Right-to-Know regulations.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

Non-controlled.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

Revision date 2012-09-26

Disclaimer

The information provided on this material safety data sheet is to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Material Safety Data Sheet