



### 79044 - 1-Thioglycerol

Revision Date 11-Jul-2022 Revision Number 1.1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier		
Product Name	1-Thioglycerol	
Other means of identification		
Catalog Number	79044	
UN/ID no.	UN2810	
Document Number	1000005399	
Synonyms	None	
Recommended use of the chemical	and restrictions on use	
Recommended Use	Laboratory chemicals	
Details of the supplier of the safety data sheet		
<u>Manufacturer/Supplier</u> STEMCELL Technologies Canada Inc. Suite 500 - 1618 Station Street Vancouver, British Columbia V6A 1B6 Canada		
Emergency telephone number		
Emergency Telephone	1-800-667-0322	
2. HAZARDS IDENTIFICATION		

### **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A

Hazards not otherwise classified (HNOC)

Not applicable

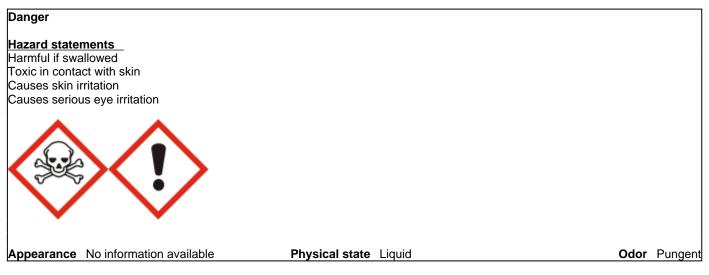




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Label elements



### **Precautionary Statements - Prevention**

Do not eat, drink or smoke when using this product Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

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 Call a POISON CENTER or doctor if you feel unwell Take off immediately all contaminated clothing and wash it before reuse IF ON SKIN: Wash with plenty of water and soap If skin irritation occurs: Get medical advice/attention IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell Rinse mouth

### **Precautionary Statements - Storage**

Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# Other Information

Not applicable

### Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)





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0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### Substance

Chemical name	CAS No.	Weight-%
3-mercaptopropane-1,2-diol	96-27-5	100

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES		
Description of first aid measures		
General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.	
Inhalation	Get medical attention immediately if symptoms occur. Remove to fresh air.	
Eye contact	Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.	
Skin contact	Get immediate medical advice/attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.	
Ingestion	Get immediate medical advice/attention. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).	
Most important symptoms and effects, both acute and delayed		
Symptoms	Burning sensation.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	





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5. FIRE-FIGHTING MEASURES		
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Unsuitable extinguishing media	CAUTION: Use of water spray when fighting fire may be inefficient.	
Specific hazards arising from the chemical	No information available.	
Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.		
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures		
Personal precautions	Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.	
Other Information	Refer to protective measures listed in Sections 7 and 8.	
Environmental precautions		
Environmental precautions	Prevent further leakage or spillage if safe to do so.	
Methods and material for containment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Pick up and transfer to properly labeled containers.	
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	

### 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling

Ensure adequate ventilation. Take off contaminated clothing and wash before reuse. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with





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skin, eyes or clothing. Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep out of the reach of children. Store locked up. Store in accordance with information listed on the Product Information Sheet (PIS).

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters		
Exposure Limits	The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.	
Appropriate engineering controls		
Engineering controls	Showers Eyewash stations Ventilation systems.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	Wear safety glasses with side shields (or goggles). If splashes are likely to occur, wear safety glasses with side-shields.	
Hand protection	Impervious gloves. Wear suitable gloves.	
Skin and body protection	Chemical resistant apron. Long sleeved clothing. Wear suitable protective clothing.	
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.	
General hygiene considerations	Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.	





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# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical an		
Physical state	Liquid	
Appearance	No information available	
Color	colorless	
Odor	Pungent	
Odor threshold	No data available	
Property	Values	Remarks • Method
рН	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	118 °C / 244 °F	
Flash point	112 °C / 234 °F	
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	Not miscible or difficult to mix	
Solubility in other solvents	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No data available	
Oxidizing properties	No information available	
Other Information		
Softening point	No information available	
Molecular weight	No information available	
Molecular formula	No information available	
VOC Content (%)	No information available	
Liquid Density	No information available	
Bulk density	No information available	
	10. STABILITY AND R	EACTIVITY

# ReactivityNo information available.Chemical stabilityStable under recommended transport or storage conditions.Possibility of hazardous reactionsNone under normal processing.





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Conditions to avoid	None known based on information supplied.
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Incompatible materials Strong acids. Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Product Information		
Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.	
Eye contact	Irritating to eyes. Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components).	
Skin contact	Causes skin irritation. Specific test data for the substance or mixture is not available. Toxic in contact with skin. (based on components).	
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Specific test data for the substance or mixture is not available. Harmful if swallowed. (based on components).	
Symptoms related to the physical, chemical and toxicological characteristics		
Symptoms	Redness. May cause redness and tearing of the eyes.	
Numerical measures of toxicity		
Acute toxicity		
The following values are calculated ATEmix (oral) ATEmix (dermal)	based on chapter 3.1 of the GHS document 500.00 mg/kg 300.00 mg/kg	
Unknown acute toxicity       0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity         0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity         0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity         0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)         0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)         0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)         0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (ust/mist)         Product Information		

### Delayed and immediate effects as well as chronic effects from short and long-term exposure





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Skin corrosion/irritation Product Information	Classification based on data available for ingredients. Irritating to skin.
Serious eye damage/eye irritation Product Information	Classification based on data available for ingredients. Irritating to eyes.
Respiratory or skin sensitization Product Information	No information available.
Germ cell mutagenicity Product Information	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available. Product Information
STOT - single exposure	No information available. Product Information
STOT - repeated exposure	No information available. Product Information
Aspiration hazard	No information available.
	12. ECOLOGICAL INFORMATION
Ecotoxicity	The environmental impact of this product has not been fully investigated. Product Information
Persistence and degradability	No information available.
Bioaccumulation	There is no data for this product.
Other adverse effects	No information available.
	13. DISPOSAL CONSIDERATIONS
Waste treatment methods	

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.





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**Contaminated packaging** 

Do not reuse empty containers.

### **14. TRANSPORT INFORMATION**

Note:	ADR Excepted quantities (EQ): Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml IMDG Limited quantities (LQ): 5L; Excepted quantities (EQ): Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<u>DOT</u> UN/ID no. Proper shipping name Hazard class Packing Group	UN2810 Toxic, liquids, organic, n.o.s. (3-mercaptopropane-1,2-diol) 6.1 Toxic substances III
TDG	Not regulated
MEX	Not regulated
ICAO (air)	Not regulated
<u>IATA</u> UN Number UN proper shipping name Transport hazard class(es) Packing Group	Not regulated UN2810 TOXIC LIQUID, ORGANIC, N.O.S. (3-mercaptopropane-1,2-diol) 6.1 Toxic substances III
IMDG UN Number UN proper shipping name Transport hazard class(es) Packing Group	Not regulated UN2810 TOXIC LIQUID, ORGANIC, N.O.S. (3-mercaptopropane-1,2-diol) 6.1 Toxic substances III
RID	Not regulated
<u>ADR</u> UN Number UN proper shipping name Transport hazard class(es) Packing Group	Not regulated UN2810 2810 TOXIC LIQUID, ORGANIC, N.O.S. (3-mercaptopropane-1,2-diol) 6.1 Toxic substances III
ADN	Not regulated





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### **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

### US 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 which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

### CWA (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).

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### US State Regulations





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#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

US State Regulations This product does not contain any substances regulated by state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Prepared By,	Quality Control. STEMCELL Technologies Canada Inc.
Revision Date	11-Jul-2022
Revision Note	No information available.

#### Revision Note Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text. STEMCELL Technologies Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

**End of Safety Data Sheet**