



Material Safety Data Sheet

0.1M DTT

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Preparation Name:

0.1M DTT

Product code:

SM303-0050D, SM303-0010D

Use of the preparation:

For laboratory use.

Suitable for use as reaction reagent for reverse transcription.

Company identification:

GeneDireX, Inc.

Website: www.genedirex.com

2. HAZARDS IDENTIFICATION

Hazardous/Non-hazardous Components

Chemical Name	CAS-No	Weight %
2,3-Butanediol, 1,4-dimercapto-, (theta, theta)-(+/-)-	27565-41-9	0.1-1.0

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

3. HAZARDS IDENTIFICATION

Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health

Form	Liquid
Principle Routes of Exposure/ Potential Health effects	
Eyes	No information available
Skin	No information available
Inhalation	No information available
Ingestion	No information available
Specific effects	
Carcinogenic effects	No information available
Mutagenic effects	No information available
Reproductive toxicity	No information available
Sensitization	No information available
Target Organ Effects	No information available

HMIS	
Health	0
Reactivity	0
Flammability	0



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4. FIRST AID MEASURES

Skin contact Wash off immediately with plenty of water. If symptoms persist, call a physician
 Eye contact Rinse thoroughly with plenty of water, also under the eyelids.
 If symptoms persist, call a physician.
 Ingestion Never give anything by mouth to an unconscious person.
 If symptoms persist, call a physician.
 Inhalation Move to fresh air. If symptoms persist, call a physician.
 Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Dry chemical
 Special protective equipment for firefighters Wear self-contained breathing apparatus and protective suit

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment.
 Methods for cleaning up Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Handling No special handling advice required
 Storage Keep in properly labelled contain

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls

Exposure limits

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
2,3-Butanediol, 1,4-dimercapto-, (theta, theta)- (+/-)-	--	--	--	--

Engineering measures Ensure adequate ventilation, especially in confined areas

Personal protective equipment

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment
 Hand protection Protective gloves
 Eye protection Safety glasses with side-shields
 Skin and body protection Lightweight protective clothing.
 Hygiene measures Handle in accordance with good industrial hygiene and safety practice
 Environmental exposure controls Prevent product from entering drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form liquid

Important Health Safety and Environmental Informatio

Boiling Point/Range	°C no data available	°F no data available
Melting point/range	°C no data available	°F no data available
Flash point	°C no data available	°F no data available
Autoignition temperature	°C no data available	°F no data available
Oxidizing properties	No information available	
Water solubility	soluble	



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10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Materials to avoid	No dangerous reaction known under conditions of normal use.
Hazardous decomposition products	None under normal use
polymerization	Hazardous polymerisation does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity			
<u>Chemical Name</u>	<u>LD50 (oral, rat/mouse)</u>	<u>LD50 (dermal, rat/rabbit)</u>	<u>LC50 (inhalation, rat/mouse)</u>
2,3-Butanediol, 1,4-dimercapto-, (theta, theta)-(+/-)-	No data available	No data available	No data available

Principle Routes of Exposure/ Potential Health effects	
Eyes	No information available
Skin	No information available
Inhalation	No information available
Ingestion	May be harmful if swallowed.
Specific effects	(Long Term Effects)
Carcinogenic effects	No information available
Mutagenic effects	No information available
Reproductive toxicity	No information available
Sensitization	No information available
Target Organ Effects	No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity effects	No information available.
Mobility	No information available.
Biodegradation	Inherently biodegradable
Bioaccumulation	Does not bioaccumulate.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

<u>IATA</u>	
Proper shipping name	Not classified as dangerous in the meaning of transport regulations
Hazard class	No information available
Subsidiary Class	No information available
Packing group	No information available
UN-No	No information available

15. REGULATORY INFORMATION

International Inventories						
<u>Chemical Name</u>	<u>TSCA</u>	<u>PICCS</u>	<u>ENCS</u>	<u>DSL</u>	<u>NDSL</u>	<u>AICS</u>
2,3-Butanediol, 1,4-dimercapto-, (theta, theta)-(+/-)-	--	Listed	--	Listed	--	--



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U.S. Federal Regulations

SARA 313

This product is not regulated by SARA.

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

This product does not contains HAPs.

U.S. State Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode	Island
2,3-Butanediol,	- RTK	- RTK	- RTK	- RTK	- RTK	- RTK
1,4-dimercapto-, (theta, theta)-(+/-)-	--	--	--	--	--	--

California Proposition 65

This product does not contain chemicals listed under Proposition 65

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

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may be present unknown hazards and should be used with caution. Since GeneDireX, Inc. Corporation cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

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