

Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Identification of the substance or mixture

Product code 21985023

Product name 2-MERCAPTOETHANOL (1000X)

Company/undertaking identification

Life Technologies
5791 Van Allen Way
5250 Mainway Drive
PO Box 6482
Burlington, ONT
Carlsbad, CA 92008
+1 760 603 7200
Burlington, ONT
CANADA L7L 6A4
800/263-6236

24 hour Emergency Response: 866-536-0631 301-431-8585

Outside of the U.S. +1-301-431-8585

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

SECTION 2: Hazards identification

GHS - Classification

Signal Word WARNING



Health hazards

Skin sensitization Category 1

Physical hazards

Not Hazardous

Hazard Statements

H317 - May cause an allergic skin reaction

H412 - Harmful to aquatic life with long lasting effects

 Revision date
 12-Sep-2014

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 Product

Precautionary Statements

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P264 - Wash hands thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P273 - Avoid release to the environment

Principle Routes of Exposure

Potential Health Effects

May cause eye irritation with susceptible persons. eves

Skin May cause sensitization by skin contact. May cause irritation of respiratory tract. inhalation

Ingestion May be harmful if swallowed.

Specific effects

Carcinogenic effects None **Mutagenic effects** None Reproductive toxicity None

Sensitization May cause an allergic skin reaction

No known effects under normal use conditions **Target Organ Effects**

HMIS

Health	1
Flammability	0
Reactivity	0

SECTION 3: Composition/information on ingredients

Chemical Name	CAS-No	EINECS-No	Weight %
2-mercaptoethanol	60-24-2	200-464-6	<0.5

We recommend handling all chemicals with caution.

SECTION 4: First aid measures

Skin contact Wash off immediately with plenty of water. If symptoms persist, call a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 Eye contact

minutes. If symptoms persist, call a physician.

Never give anything by mouth to an unconscious person. Consult a physician if Ingestion

inhalation Remove to fresh air. Consult a physician if necessary.

Treat symptomatically. **Notes to Physician**

SECTION 5: Firefighting measures

Suitable extinguishing media

Dry chemical.

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Special protective equipment for firefighters

Wear self-contained breathing apparatus and protective suit.

SECTION 6: Accidental release measures

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

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

See Section 12 for more information.

SECTION 7: Handling and storage

Handling Always wear recommended Personal Protective Equipment.

Storage Keep in properly labeled containers.

SECTION 8: Exposure controls/personal protection

Exposure Limits

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
2-mercaptoethanol	2-mercaptoethanol None None		None	None

Engineering measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection Impervious gloves.

Eye protection Wear safety glasses with side shields (or goggles).

Skin and Body Protection Lightweight protective clothing.

Hygiene measuresHandle in accordance with good industrial hygiene and safety practice.

Environmental exposure

controls

Prevent product from entering drains.

SECTION 9: Physical and chemical properties

General information

Form Liquid

Appearance
Odor
No information available
No information available

Boiling point / boiling range
Melting point / melting range
flash point

"C No data available
"C No data available
"C No data available

flash point°CNo data available°FNo data availableAutoignition Temperature°CNo data available°FNo data available

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°F No data available

°F No data available

Oxidizing properties Water solubility

No information available

No information available.

soluble

SECTION 10: Stability and reactivity

Stability Stable under normal conditions.

Materials to avoid Hazardous decomposition

products polymerization No information available.

Hazardous polymerization does not occur.

SECTION 11: Toxicological information

Acute Toxicity

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
2-mercaptoethanol	244 mg/kg Oral LD50	No data available	250 ppm/8h

Principle Routes of Exposure

Potential Health Effects

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eyes May cause eye irritation with susceptible persons

Skin May cause sensitization by skin contact May cause irritation of respiratory tract inhalation

May be harmful if swallowed Ingestion

Carcinogenic effects None **Mutagenic effects** None Reproductive toxicity None

Sensitization May cause an allergic skin reaction

Target Organ Effects No known effects under normal use conditions

SECTION 12: Ecological information

Ecotoxicity Daphnia magna Chronic aquatic toxicity Category 3 see log Pow **Mobility**

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Biodegradation No information available Bioaccumulation No information available

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
2-mercaptoethanol	Desmodesmus	Daphnia magna			logPow-0.056
·	subspicatus EC50=12	EC50=1.52 mg/L (48			
	mg/L (72 h)	h)			

SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

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SECTION 14: Transport information

IATA

Proper shipping name No dangerous good in sense of these transport regulations.

Hazard Class None
Subsidiary class None
Packing group None
UN-No none

SECTION 15: Regulatory information

Component	TSCA
2-mercaptoethanol	Listed
60-24-2 (<0.5)	

US 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.

US State Regulations

Chemical Name	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK	Illinois - RTK	Rhode Island - RTK
2-mercaptoethanol	Listed	-	Listed	-	-

California Proposition 65

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

D2B - Toxic materials



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

SECTION 16: Other information

Reason for revision SDS sections updated.

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

Revision date 12-Sep-2014 **Product code** 21985023 "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 present unknown hazards and should be used with caution. Since the Company 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. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"

End of Safety Data Sheet