

Material Safety Data Sheet

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

Identification of the substance or mixture

Product code: **Exo-UT50**

Product name: ME buffer contains

1. <1% of Deoxycholic acid
2. <1% of *meso*-2,3-Dimercaptosuccinic acid
3. <1% of 2-mercaptoethanol
4. <1% of Ethylenediaminetetraacetic acid (EDTA), Magnesium Salt
5. <1% of HEPES

Company/undertaking identification

Evomic Science LLC

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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

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

Eyes: May cause eye irritation with susceptible persons.
Skin: May cause sensitization by skin contact.
Inhalation: May cause irritation of respiratory tract.
Ingestion: May be harmful if swallowed.

Specific effects

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

HMIS

Health: 1
Flammability: 0
Reactivity: 0

SECTION 3: Composition/information on ingredients

Chemical Name	CAS-No	EINECS-No	Weight %
HEPES	7365-45-9	230-907-9	<1
Deoxycholic acid	83-44-3	201-478-5	<1
2-mercaptoethanol	60-24-2	200-464-6	<1
meso-2,3-Dimercaptosuccinic acid	304-55-2	206-155-2	<1
EDTA, Magnesium Salt	39377-66-7	254-436-3	<1%

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.

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

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

Inhalation: Remove to fresh air. Consult a physician if necessary.

Notes to Physician: Treat symptomatically.

SECTION 5: Firefighting measures

Suitable extinguishing media: Dry chemical.

Special protective equipment for firefighters: Wear self-contained breathing apparatus and protective suit.

SECTION 6: Accidental release measures

Personal precautions: Use personal protection equipment.

Methods for cleaning up: 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	None	None	None	None
<i>meso</i> -2,3-Dimercaptosuccinic acid	None	None	None	None
Deoxycholic acid	None	None	None	None
HEPES	None	None	None	None
EDTA, Magnesium	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 measures: Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure Control: Prevent product from entering drains.

SECTION 9: Physical and chemical properties

General information

Form: Liquid
Appearance: No information available
Odor: No information available
Boiling point/boiling range °C: No data available °F No data available
Melting point/melting 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

SECTION 10: Stability and reactivity

polymerization Hazardous: polymerization does not occur.

Stability: Stable under normal conditions.

Materials to avoid: No information available.

Hazardous decomposition product: No information available.

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
<i>meso</i> -2,3-Dimercaptosuccinic acid	> 5,011 mg/kg	None	None
Deoxycholic acid	None	None	None
HEPES	None	None	None
EDTA, Magnesium	None	None	None

Principle Routes of Exposure

Potential Health Effects

Eyes: May cause eye irritation with susceptible persons
Skin: May cause sensitization by skin contact
Inhalation: May cause irritation of respiratory tract
Ingestion: May be harmful if swallowed
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
Mobility: see log Pow
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 subspicatus EC50=12 mg/L (72 h)	Daphnia magna EC50=1.52 mg/L (48 h)	N/A	logPow-0.056
meso-2,3-Dimercaptosuccinic acid	N/A	N/A	N/A	N/A
Deoxycholic acid	N/A	N/A	N/A	N/A
HEPES	N/A	N/A	N/A	N/A
EDTA, Magnesium	N/A	N/A	N/A	N/A

SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

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 (<1%)	

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	RTK New Jersey	RTK Pennsylvania	RTK Illinois	RTK Rhode Island	RTK Massachusetts
2-mercaptoethanol		Listed			Listed
<i>meso</i> -2,3-Dimercaptosuccinic acid	N/A	N/A	N/A	N/A	N/A
Deoxycholic acid	N/A	N/A	N/A	N/A	N/A
HEPES	N/A	N/A	N/A	N/A	N/A
EDTA, Magnesium	N/A	N/A	N/A	N/A	N/A

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

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

Notice to reader To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. This product is for research use only.

End of Safety Data Sheet