# SAFETY DATA SHEET



Revision date 08-Nov-2022

Revision Number 2

#### 1. Identification

Product identifier

Product Name

XT MES

Other means of identification

Catalog Number(s)

1610789, 1610789S, 9704636, 1610789EDU

Recommended use of the chemical and restrictions on use

Recommended use

Laboratory chemicals

#### Details of the supplier of the safety data sheet

Corporate Headquarters

Bio-Rad Laboratories Inc 1000 Alfred Nobel Drive Hercules, CA 94547 USA

Manufacturer Address Bio-Rad Laboratories, Life Science Group Bio-Rad Laboratories 2000 Alfred Nobel Drive

Hercules, California 94547

USA

Legal Entity / Contact Address

Life Science 2000 Alfred Nobel Drive Hercules, California 94547

Technical Service

1-800-424-6723 support@bio-rad.com

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC USA: 1 (800) 424-9300

# 2. Hazard(s) identification

# Classification

Skin corrosion/irritation	Category 2		
Serious eye damage/eye imitation	Category 2A		
Specific target organ toxicity (single exposure)	Category 3		

### Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements Warning

Hazard statements Causes skin irritation

Causes serious eye imitation May cause respiratory irritation



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Odor Odorless Physical state Liquid Appearance aqueous solution

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/furne/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Wear protective gloves/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 IF ON SKIN: Wash with plenty of water and soap

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Call a POISON CENTER or doctor if you feel unwell

### Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed

### Precautionary Statements - Disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

### Other information

Harmful to aquatic life with long lasting effects.

### 3. Composition/information on ingredients

### Substance

Not applicable.

# Mixture

Chemical name	CAS No	Weight-%	Trade secret
1,3-Propanediol, 2-[bis(2-hydroxyethyl)amino]-2-(hydroxymethyl)-	6976-37-0	20 - 35	
Sodium lauryl sulfate	151-21-3	1 - 2.5	

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret,

# 4. First-aid measures

# Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance.

Inhalation

Remove to fresh air, IF exposed or concerned: Get medical advice/attention, Get medical

attention immediately if symptoms occur-

Eye contact

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, Get medical attention if imitation develops and

Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical Skin contact

attention if irritation develops and persists.

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Ingestion

Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person Call a physician

Self-protection of the first aider

Avoid contact with skin, eyes or clothing, Wear personal protective clothing (see section 8)

Most important symptoms and effects, both acute and delayed

Symptoms

May cause redness and learing of the eyes. Burning sensation.

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically;

# 5. Fire-fighting measures

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the No information available

Explosion data

Sensitivity to mechanical impact None

Sensitivity to static discharge None

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting lumout gear. Use personal protection equipment.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

Ensure adequate ventilation. Use personal protective equipment as required. Evacuate

personnel to safe areas. Avoid contact with skin, eyes or clothing.

Other information

Refer to protective measures listed in Sections 7 and 8.

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.

## 7. Handling and storage

Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Ensure adequate ventilation. Avoid breathing

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vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment,

Conditions for safe storage, including any incompatibilities

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Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store according to product and label instructions

### 8. Exposure controls/personal protection

Control parameters

Exposure Limits

This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

#### Appropriate engineering controls

Engineering controls

Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection

If splashes are likely to occur, wear safety glasses with side-shields.

Hand protection

Wear suitable gloves. Impervious gloves.

Skin and body protection

Wear suitable protective clothing. Long sleeved 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

Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this

product. Avoid contact with skin, eyes or clothing.

# 9. Physical and chemical properties

Information on basic physical and chemical properties Liquid

Physical state

Appearance aqueous solution Color colorless

Odor Odorless

Odor threshold No information available

Property

Values

Remarks • Method

Melting point / freezing point Boiling point / boiling range Flash point

No data available > 100 °C / 212 °F No data available No data available

None known None known

Evaporation rate Flammability (solid, gas) Flammability Limit in Air

No data available Upper flammability or explosive No data available None known None known None known

limits Lower flammability or explosive No data available

limits

Vapor pressure Vapor density Relative density Water solubility

No data available No data available No data available

Miscible in water

No data available

None known None known None known None known

Solubility(ies) AGHS / EN

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No dala available None known Partition coefficient None known No data available Autoignition temperature None known No data available Decomposition temperature No data available None known Kinematic viscosity No data available None known Dynamic viscosity Other information No information available

Explosive properties No information available Oxidizing properties No information available Softening point No information available Molecular weight No information available VOC content No information available Liquid Density No information available Bulk density No information available No information available No information available Bulk density

10. Stability and reactivity

Reactivity No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid None known based on information supplied,

Incompatible materials Strong acids, Strong bases, 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 Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

Skin contact Specific test data for the substance or mixture is not available. Causes skin irritation, (based

on componen

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

# Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

Redness, May cause redness and tearing of the eyes,

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3,1 of the GHS document

ATEmix (oral) 51,842 00 mg/kg ATEmix (inhalation-dust/mist) 29,00 mg/l

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Orel LD50	Dermal LD50	Inhalation LC50
	Market Color and A. C.	> 3900 mg/m³ (Rat) 11
= 1288 mg/kg (Rat)	= 200 Hig/kg ( Nappit )	- 3500 mg/m (mat) m
	Oral LD50 = 1288 mg/kg (Ral)	Cital EDGG

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

Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available,

Carcinogenicity No information available

Reproductive toxicity No information available

STOT - single exposure May cause respiratory irritation.

STOT - repeated exposure No information available

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effects No information available

# 12. Ecological information

#### Ecotoxicity

Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium lauryi sulfate 151-21-3	Desmodesmus subspicatus) EC50: 30 - 100mg/L (96h, Desmodesmus subspicatus) EC50: =117mg/L (96h,	LC50: 22.1 - 22.8mg/L (96h, Pimephales promelas) LC50: 4.3 - 8.5mg/L (96h, Oncorhynchus mykiss) LC50: =4.62mg/L (96h,		ECS0: =1,8mg/L (48h, Daphnia magna)

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(96h, Brachydanio rerio) LC50: 4.06 - 5.75mg/L (96h, Lepomis macrochirus) LC50: 4.2 - 4.8mg/L (96h, Lepomis macrochirus) LC50: -4.5mg/L (96h, Lepomis macrochirus) LC50: -4.5mg/L (96h, Lepomis macrochirus) LC50: 5.8 - 7.5mg/L (96h, Pimephales prometas) LC50: 10.2 - 22.5mg/L (96h, Pimephales prometas) LC50: 6.2 - 9.6mg/L (96h, Pimephales prometas) LC50: 6.3 - 1.8.3mg/L (96h, Poecilia reticulata) LC50: 10.8 - 1.6.8mg/L	-
LC50: 10.8 - 16.6mg/L (96h, Poecilla reliculata) LC50: =1.31mg/L (96h, Cyprinus carpio)	

Persistence and degradability

No information available,

#### Bioaccumulation

Component Information

Chemical name 1,3-Propanediol, 2-(bis(2-hydroxyethyl)amino)-2-(hydroxymethyl)-	Partition coefficient		
6976-37-0	-2.26		
Sodium lauryl sulfate 151-21-3	1,6		

Other adverse effects

No information available.

# 13. Disposal considerations

Waste treatment methods

Waste from residues/unused

products

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

environmental legislation.

Contaminated packaging

Do not reuse empty containers.

# 14. Transport information

DOT

Not regulated

TDG

Not regulated

MEX IATA

Not regulated

IMDG

Not regulated Not regulated

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# 15. Regulatory information

International Inventories

Contact supplier for inventory compliance status

#### **US Federal Regulations**

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
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate

CWA (Clean Water Act)
This product contains the following substances which are regulated 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

#### US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Waler 7732-18-5	18.	2.5	X
Ethylenediaminetetraacetic acid 60-00-4	X	X	×

# U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information				
NFPA HMIS	Health hazards 2 Health hazards 2	Flammability 0 Flammability 0	Instability 0	Special hazards -

Key or legend to abbreviations and acronyms used in the safety data sheet Legend Section 8: EXPOSURE CONTROL S/PERSONAL PROTECTION TWA TWA (time-weighted average) STEL

TWA (time-weighted average)

Maximum limit value

Flammability 0

STEL (Short Term Exposure Limit) Skin designation

Physical hazards 0

Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR)

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U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenlicide Act
U.S. Environmental Protection Agency High Production Volume Chemicals U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) Australia National Industrial Chemicals Notification and Assessment Scherne (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safe Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

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Revision Note

Significant changes throughout SDS Review all sections.

Revision Note <u>Disclaimer</u>

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.

End of Safety Data Sheet

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