



MODERNWATER

MICROTOX ACUTE REAGENT SAFETY DATA SHEET

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Version number: 1

Supersedes/Cancel: N/A

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

1.1 Product Identifier

Microtox Acute Reagent, 10/Pk.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Used in general acute/toxicity testing.

1.3 Details of the supplier of the substance or mixture

Modern Water, Inc.

15 Reads Way, Suite 100

New Castle, DE 19720

Phone: (302) 669-6900

1.4 Emergency Telephone

Please call (302) 669-6900 or (855) 637-6426

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture [CLP classification]

Lyophilized powder (solid) capped under a vacuum. White or whitish-yello. 10 glass vials containing about 0.20 gram of solid material in each vial.

2.2 Label elements

Pictogram**Signal Word**

Warning

Hazard Statement(s)

- H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary Statement(s)

- P280 Wear protective gloves/eye protection
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present. Continue rinsing.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

2.3 Other hazard information:

None.

3 INFORMATION ON THE INGREDIENTS

3.2 Mixtures

Component	CAS No.	Classification	Concentration
Vibrio Fisheri	None	H315, H319, H335	<5%
Sodium Chloride	7647-14-5	H319	<5%
Lactose	64044-51-5	None	15%
Potassium Chloride	7447-40-7	H319	<5%
Magnesium Sulfate	10034-99-8	None	<1%
Glucose (D+)	50-99-7	None	<5%
Hepes	7365-45-9	None	<5%
Calcium Chloride	10035-04-8	None	<5%
Potassium Hydroxide	1310-58-3	H315, H319, H335	<0.2%

4 FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 Indication of immediate medical attention and special treatment needed

No data available.

5 FIRE-FIGHTING MEASURES**5.1 Extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products is unknown.

Carbon oxides, Oxides of phosphorous, Hydrogen chloride gas, Sodium oxides

5.3 Special protective actions for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

6 ACCIDENTAL RELEASE OF MATERIAL**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental Precautions

Do not let powdered product enter drains.

6.3 Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal, see Section 13.

7 HANDLING AND STORAGE**7.1 Precautions for safe handling**

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions, see Section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end uses

Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses, use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin Protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection

For nuisance exposures use type P95 (US) or type P1 (EU UN 143) particle respirator.

Control of Environmental Exposure

Do not let product enter drains.

9 PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

- a) Appearance – Solid (white or whitish-yellow)
- b) pH: 7.0-8.0 When hydrated

No data available on melting point/freezing point, boiling point, flash point, evaporation rate, flammability (solid, gas), autoignition temperature, lower and upper flammability or explosive limits, vapor pressure, partition coefficient, relative vapor density, odor, odor threshold, viscosity, explosive properties, or oxidizing properties.

9.2 Other information

None

10 STABILITY AND REACTIVITY**10.1 Reactivity**

No data available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to Avoid

No data available.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

Other decomposition products – no data available.

In the event of fire: see Section 5.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

No data available.

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation

No data available.

Serious eye damage/eye irritation

No data available.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

IARC: No component of this product, present at levels greater than or equal to 0.1%, is identified as a probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available.

Specific target organ toxicity – single exposure

No data available.

Specific target organ toxicity – repeated exposure

No data available.

Aspiration hazard

No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods.

IMDG

Not dangerous goods.

IATA

Not dangerous goods.

15. REGULATORY INFORMATION

REACH No: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical compounds with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section, 313.

SARA 311/312 Hazards

Acute Health Hazard.

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION**Full text of H-Statements referred to under sections 2 and 3.**

Eye Irrit. Eye Irritation
 H315 Causes skin irritation.
 H319 Causes serious eye irritation
 H335 May cause respiratory irritation
 Skin Irrit. Skin irritation
 STOT SE Specific target organ toxicity – single exposure.

HMIS Rating

Health Hazard: Chronic Health	1
Flammability	0

Physical Hazard	0
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NFPA Rating

Health Hazard	1
Fire Hazard	0
Reactivity Hazard	0

The above data are based on tests, experience, and other information which Modern Water Inc. believes reliable and are supplied for informational purposes only. However, some ingredients may have been purchased or obtained from third-party manufacturers. In these instances, Modern Water, Inc., in good faith, relies on information provided by those third parties. Since conditions of use are outside our control, MODERN WATER INC. DISCLAIMS ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM USE OF THE ABOVE DATA. NOTHING CONTAINED HEREIN SHALL CONSTITUTE A GUARANTEE, WARRANTY (INCLUDING WARRANTY OF MERCHANTABILITY) OR REPRESENTATION (INCLUDING FREEDOM FROM PATENT LIABILITY) BY MODERN WATER, INC. WITH RESPECT TO THE DATA, THE MATERIAL DESCRIBED, OR ITS USE FOR ANY SPECIFIC PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO MODERN WATER INC.