

**\*\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*\***

MSDS Name : 200x DDM CHS buffer

**\*\*\*\* SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION \*\*\*\***

MSDS Name: 200x DDM CHS buffer

Catalog Number: DC-11

Company Identification: ACROBIOSYSTEMS INC

For information, call: +1 800-810-0816

**\*\*\*\* SECTION 2 - HAZARDS IDENTIFICATION \*\*\*\***

GHS-Classification: Not hazardous

Signal Word: Not hazardous

Hazard statements: Not applicable.

Precautionary statements: Not applicable.

Hazard Symbol / R-Phrase / S-Phrase: Not applicable.

Special Hazards: Not applicable.

**\*\*\*\* SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS \*\*\*\***

This 200x detergent solution contains 10%(w/v) DDM and 2% (w/v) CHS that is necessary for solubilization of membrane proteins.

DDM, or n-Dodecyl  $\beta$ -D-Maltoside [CAS: 69227-93-6], is a maltoside based non-ionic detergent with a hydrophilic maltose head and a hydrophobic long chain alkyl tail. CHS, or Cholesteryl Hemisuccinate Tris Salt [CAS: 102601-49-0], is an ionizable anionic detergent that stabilizes large unilamellar vesicles. DDM/CHS micelles provide a more membrane-like environment for solubilization of membrane proteins, and help to keep structural integrity and activity.

This 200x detergent solution is sterile-filtered and contains no other preservatives.

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

**\*\*\*\* SECTION 4 - FIRST AID MEASURES \*\*\*\***

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

**Skin:** Rinse with plenty of water. If symptoms arise, call a physician.

**Ingestion:** Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do

not induce vomiting without medical advice.

**Inhalation:** Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

**Notes to physician:** Treat symptomatically.

\*\*\*\* SECTION 5 - FIRE FIGHTING MEASURES \*\*\*\*

**Suitable extinguishing media:** water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

**Advice for firefighters:** Firefighters should Wear self-contained breathing apparatus and protective suit.

\*\*\*\* SECTION 6 - ACCIDENTAL RELEASE MEASURES \*\*\*\*

**Personal Precautions:** Use personal protective equipment.

**Methods for Cleaning Up:** Soak up with inert absorbent material.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so.

\*\*\*\* SECTION 7 - HANDLING AND STORAGE \*\*\*\*

**Handling:** Avoid contact with skin, eyes and clothing. Wear personal protective equipment..

**Storage:** Keep in a dry, cool and well-ventilated place.

\*\*\*\* SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION \*\*\*\*

**Engineering Controls:** 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:** 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.

\*\*\*\* SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES \*\*\*\*

General Information

Form	Liquid
Appearance	No information available

Odour	No information available	
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
Oxidising properties	No information available	
Water Solubility	soluble	

\*\*\*\* SECTION 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.
Polymerisation	Hazardous polymerisation does not occur.

\*\*\*\* SECTION 11 - TOXICOLOGICAL INFORMATION \*\*\*\*

Acute Toxicity

Not hazardous

Principle Routes of Exposure/Potential Health effects

Eyes	May cause eye irritation with susceptible persons.
Skin.	May cause skin irritation in susceptible persons.
Inhalation	May be harmful by inhalation.
Ingestion	May be harmful if swallowed.
Carcinogenic effects	None.
Mutagenic effects	None.
Reproductive toxicity	None.
Sensitisation	None.

\*\*\*\* SECTION 12 - ECOLOGICAL INFORMATION \*\*\*\*

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

\*\*\*\* SECTION 13 - DISPOSAL CONSIDERATIONS \*\*\*\*

Dispose of in accordance with local regulations

\*\*\*\* SECTION 14 - TRANSPORT INFORMATION \*\*\*\*

IATA

Proper shipping name	Not classified as dangerous in the meaning of transport regulations.
Hazard class	None
Subsidiary Class	None
Packing group	None
UN-No	None

\*\*\*\* SECTION 15 - REGULATORY INFORMATION \*\*\*\*

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.  
 International Chemical Weapons Convention: Neither banned nor restricted.  
 (CWC) Schedules of Toxic Chemicals and  
 Precursors

REACH - Restrictions on the manufacture: Neither banned nor restricted.

\*\*\*\* SECTION 16 - OTHER INFORMATION\*\*\*\*

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

**Reported by:**

Company Name : ACROBIOSYSTEMS INC

Date: April 22, 2020