

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product details:	Aqueous buffered solution containing formaldehyde and diethylene glycol
Trade name:	eBioscience 1-Step Fix/Lyse Solution (10X)
Catalog Number:	00-5333
Chemical Family:	
Manufacturer/Supplier :	eBioscience, Inc. 10255 Science Center Drive San Diego, Ca 92121 888-999-1371

Section 2 - Composition / Information on Ingredients

Component	CAS#	EC#	% By Weight
Formaldehyde	50-00-0	200-001-8	10
Diethylene glycol	111-46-6	203-872-2	30

Section 3 - Hazards Identification

<p>Hazard description: This product contains no hazardous constituents, or the concentration of all chemical constituents are below the regulatory threshold limits described by Occupational Safety Health Administration Hazard Communication Standard 29CFR 1910.1200 and the European Directive 91/155/EEC, and 93/112/EC.</p> <p>Classification system The classification was made according to the latest editions of the international substances lists, and expanded upon from company and literature data.</p> <p>NFPA ratings (scale 0-4) Health = 2 Fire = 1 Reactivity = 0</p>

Section 4 - First Aid Measures

Inhalation:	If inhaled, move to fresh air. Seek medical attention.
Skin Contact:	Wash skin with soap and water for at least 15 minutes while removing contaminated personal protective equipment, clothing, and shoes. Seek medical attention if needed.
Eye Contact:	Irrigate eyes for at least 15 minutes. Seek medical attention.
Ingestion:	If symptoms persist, seek medical attention immediately.

Section 5 - Fire Fighting Measures

<p>Suitable extinguishing agents CO₂, extinguishing powder or water spray. Fight larger fires with water supply or alcohol resistant foam.</p> <p>Protective equipment: No special measures required.</p>

Section 6 - Accidental Release Measures

<p>Person-related safety precautions: Not required.</p> <p>Measures for environmental protection: Wipe up with damp sponge or mop.</p> <p>Measures for cleaning/collecting: Absorb with liquid-binding material. Discard contaminating material as waste according to Section 13. Ensure adequate ventilation.</p> <p>Additional information: None.</p>

Section 7 - Handling and Storage

<p>Handling</p> <p>Information for safe handling: Good ventilation/exhaustion at the workplace. Prevent aerosol formation.</p> <p>Information about protection against explosions and fires: No special measures required.</p> <p>Storage</p> <p>Temperature requirements to be met by storerooms and receptacles: 4°C</p> <p>Information about storage in one common storage facility: Store away from oxidizing agents.</p> <p>Further information about storage conditions: None</p>

Section 8 - Exposure Control / Personal Protection

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation were used as basis.

Personal Protective Equipment

General Protective and Hygienic measures: The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.

Protection of hands: Chemical resistant gloves (i.e. latex, nitrile, or equivalent).

Eye protection: Safety glasses

Body protection: Protective work clothing (lab coat).

Section 9 - Physical and Chemical Properties

General Information	
Physical State:	Liquid
Color:	Clear
Odor:	Characteristic
Change in condition:	
Melting point/melting range:	Undetermined
Boiling point/boiling range:	-21°C (-6°F)
Flash point:	146°C (295°F)
Auto igniting:	Product is not self igniting
Danger of explosion:	Product does not present an explosion hazard.
Vapor pressure:	23.0 hPa (17 mm Hg) at 20°C (68°F)
Density:	Not determined
Solubility with water	Soluble

Section 10 - Stability and Reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Materials to be avoided: Incompatible material: strong oxidizer

Dangerous reactions: Reacts with oxidizing agents

Dangerous products of decomposition: Poisonous gases/vapors; formaldehyde

Section 11 - Toxicological Information

Acute toxicity:

Primary irritant effect:

Skin: No irritant effect.

Eye: No irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product is not subject to OSHA classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Section 12 - Ecological Information

Ecotoxic effects:

Other information: The ecological effects have not been thoroughly investigated, but currently none have been identified.

General notes: Water hazard class 2 (Self-assessment): hazardous for water.

Section 13 - Disposal Considerations

Product:

Recommendation

Must adhere to state and federal regulations.

Must not be disposed of with solid waste.

Disposal must be made according to the regulations found in 40 CFR 261.

This product is not considered a RCRA hazardous waste.

Uncleaned packagings:

Recommendation: Disposal must be made according to state and federal regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

Section 14 - Transport Information

DOT regulations

Hazard Class: Non hazardous for transport

Land transport

ADR/RID class: Non hazardous for transport

Maritime transport

IMDG Class:

Marine pollutant: No

Air transport

ICAO/IATA Class: Non hazardous for air transport

Section 15 - Regulatory Information

SARA Section 355 (extremely hazardous substances)

50-00-0 Formaldehyde

SARA Section 313 (specific toxic chemical listings)

50-00-0 Formaldehyde

TSCA (Toxic Substances Control Act)

111-46-6 Diethylene glycol

50-00-0 Formaldehyde

68-04-2 Sodium citrate

California Proposition 65 – Chemicals known to cause cancer

50-00-0 Formaldehyde

California Proposition 65 – Chemicals known to cause reproductive toxicity

None of the ingredients is listed.

Carcinogenicity categories

IARC (International Agency for Research on Cancer)

50-00-0 Formaldehyde

NTP (National Toxicology Program)

50-00-0 Formaldehyde

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

Product related hazard information:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations pertaining to regulations on hazardous materials.

National regulations

Water hazard class: Water hazard class 2 (Self assessment): hazardous for water.

Section 16 - Other Information

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control: all risks of use of the product are therefore assured by the user.

Preparation Date: 06/09/2009