

Section 1: Material Identification

Material Name:

Dilution Buffer

Application of the substance / the mixture:

Research use only.

Supplied By:

SeqOnce Biosciences, Inc.

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Phone: 626-460-3050

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24-Hour Emergency Telephone (CHEMTREC): 1-800-424-9300

Call only in case of a chemical emergency (leak, spill, exposure, fire, or accident)

Section 2: Composition Information / Ingredients

Classification of the substance or mixture components:

The product contains sodium chloride, magnesium chloride, tris hydrochloride, and dithiothreitol. The product contains no components, at their given concentration, to be considered hazardous to health. Handle all chemicals with caution.

Section 3: Hazards Identification

General Advice:

Seek immediate medical advice or attention (using safety data sheet if possible), in case of accident or unwellness. Remove from exposure, lie down and do not breathe dust/ fume/ gas/ mist/ vapors/ or spray.

Specific Effects:

Carcinogenic effects	None
Mutagenic effects	None
Reproductive toxicity	None
Sensitization	None
Target organ effects	None under normal use conditions

HMIS:

Health	0
Flammability	0
Reactivity	0

Section 4: First Aid Measures

Skin Contact	Wash exposed area with soap and water. Generally, the product does not irritate the skin. If irritation develops, call a physician.
Eye Contact	Rinse opened eye for several minutes under running water. Consult a physician.
Ingestion	Do not induce vomiting; immediately call for medical help.
Inhalation	Move to fresh air. If symptoms persist, call a physician.
Notes to Physician	Treat symptomatically.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Carbon dioxide, dry chemical, or appropriate foam.
Fire / Explosion Hazards	Use firefighting conditions suitable for the environment.
Special Protective Equipment for Firefighters	Wear self-contained breathing apparatus and protective suit.

Section 6: Accidental Release Measures

Personal Precautions	Use personal protective equipment.
Environmental Precautions	Dilute with plenty of water. Do not allow to enter sewers / surface or ground water.
Clean-up Method	Soak up with inert absorbent material (sand, diatomite, acid binders, universal binders, sawdust) and put in chemical waste container.

Section 7: Handling and Storage

Handling	Avoid inhalation and prolonged exposure. Use personal protective equipment such as gloves, goggles, and lab coat. Avoid contact with Eyes, Skin and Clothing.
Storage	Keep tightly closed in properly labeled containers; store at recommended temperature indicated on label.

Section 8: Exposure Controls and Personal Protection

Precautions for Safe Handling

General Protective and Hygienic Measures	The usual precautionary measures for handling chemicals should be followed.
Breathing Equipment	Not required.
Protection of Hands	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Material of Gloves	The selection of the suitable gloves does not only depend on the material, but also on manufacturer marks of quality.
Eye Protection	The usual precautionary measures for handling chemicals should be followed.

Information about protection against explosions and fires	No special requirements.
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Storage:

Requirements to be met by storerooms and receptacles	No special requirements.
Information about storage in one common storage facility	Not required.
Further information about storage conditions	None.

Specific End Use(s)

Laboratory reagent.

Section 9: Physical and Chemical Properties

General Information

Form	Liquid.
Color	Colorless.
Odor	No information available.
Odor Threshold	Not determined.
pH-value	Not determined.
Change in Condition	
Melting point/ Melting range	Undetermined.
Boiling point/ Boiling range	Undetermined.
Flash Point	Undetermined.
Flammability (solid, gaseous)	Not applicable.
Flammability Limit in Air	Undetermined.
Upper Limit	
Lower Limit	
Autoignition Temperature	Undetermined.
Decomposition Temperature	Undetermined.
Danger of Explosion	Product does not present an explosion hazard.
Oxidizing Properties	Undetermined.
Water Solubility	Soluble.
Density	Undetermined.
Relative Density	Undetermined.
Vapor Density	Undetermined.
Vapor Pressure	No information.
Evaporation Rate	Undetermined.
Solubility in/ Miscible with	
Water	Fully miscible.
Partition coefficient (n-octanol/water)	Undetermined.

Viscosity:

**Dynamic
Kinematic**

Undetermined.
Undetermined.

Section 10: Stability and Reactivity

Reactivity

No further relevant information available.

Chemical Stability

Thermal Decomposition/ Conditions to be Avoided

No decomposition if used according to specifications.

Possibility of Hazardous Reactions

No dangerous reactions known.

Conditions to Avoid

No further relevant information available.

Incompatible Materials

No further relevant information available.

Hazardous Decomposition Products

No dangerous decomposition products known.

Section 11: Toxicological Information

Principle Routes of Exposure / Potential Health Effects:

Eyes

May cause eye irritation with susceptible persons. Rinse with plenty of water for at least 15 minutes, lifting low and upper eyelids. Consult physician.

Skin

May cause skin irritation in susceptible persons. Wash skin with soap and water.

Inhalation

May be harmful by inhalation. Remove to fresh air.

Ingestion

May be harmful if swallowed. Clean mouth with water and drink afterwards plenty of water.

Information on Toxicological Effects

Acute Toxicity

Not hazardous.

Primary Irritant Effect:

On the Skin

May cause eye irritation with susceptible persons.

On the Eye

May cause eye irritation with susceptible persons.

Specific Effects

Carcinogenic Effects

None.

Mutagenic Effects

None.

Reproductive Toxicity

None.

Sensitization

None.

Target Organ Effects

None under normal use conditions.

Additional toxicological Information

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

Section 12: Ecological Information

Ecotoxicity Effects

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Sodium chloride 7647-14-5	-	12946: 96 h Lepomis macrochirus mg/L LC50 static 4747 - 7824: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 5560 - 6080: 96 h Lepomis macrochirus mg/L LC50 flow-through 6020 - 7070: 96 h Pimephales promelas mg/L LC50 static 7050: 96 h Pimephales promelas mg/L LC50 semi-static 6420 - 6700: 96 h Pimephales promelas mg/L LC50 static	-	340.7 – 469.2: 48 h Daphnia magna mg/L EC50 Static 1000: 48 h Daphnia magna mg/L EC50
Magnesium chloride 7786-30-3	2200: 72 h Desmodesmus subspicatus mg/L EC50	4210: 96 h Gambusia affinis mg/L LC50 static 1970 - 3880: 96 h Pimephales promelas mg/L LC50 static	-	140: 48 h Daphnia magna mg/L EC50 Static 1400: 24 h

Mobility	No information available
Biodegradation	No information available
Bioaccumulation	No information available

General Notes	Water hazard class 1 (Self-assessment): Slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course, or sewage system.
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Section 13: Disposal Considerations

Waste Treatment Methods Recommendation	Smaller quantities can be disposed of with household waste.
Uncleaned Packaging Recommendation	Dispose of container in accordance with local/ regional/ national and international recommendations.
Recommended Cleansing Agent	Water, if necessary, with cleansing agents.

Section 14: Transport Information

UN-Number DOT, ADN, IMDG, IATA	Not regulated.
UN Proper Shipping Name DOT, ADN, IMDG, IATA	Not regulated.
Transport Hazard Class(es) DOT, ADN, IMDG, IATA Class	Not regulated.
Packing Group DOT, IMDG, IATA	Not regulated.
Environmental Hazards	Not applicable.

Special Precautions for User	Not applicable.
Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation"	Not regulated.

Section 15: Regulatory Information

International Inventories

TSCA	Complies
United States Toxic Substances Control Act Section 8(b) Inventory	

US Federal Regulations

CWA (Clean Water Act)	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)
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CERCLA

This material, as supplied, does not contain regulated substances considered as hazardous 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 pertaining to releases of this material.

US State Regulations

California Proposition 65	This product does not contain any Proposition 65 Chemicals.
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U.S. State Right-to-Know Regulations

U.S. EPA Label Information

EPA Pesticide Registration Number	Not applicable.
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Section 16: Other Information

NFPA:	Health Hazards 0	Flammability 0	Instability 0	Special Hazard -
HMIS:	Health Hazards 0	Flammability 0	Instability 0	Special Hazard -

Disclaimer

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.

Department Issuing SDS:

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