Issuing Date: 11-Jul-2003 Revision Date: 29-Jun-2018 Rev. 5

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

Product Name: 10X Tris Glycine-SDS Buffer

Product Code: IB01160

Recommend Use: For further manufacturing use only
Not for human or animal drug use

Company: IBI SCIENTIFIC
7445 Chavnenelle Road
Dubuque, IA 52002

Emergency Tele. Number: 3E Company (Acct# 9027) 1-800-451-8346 / (001) 760-602-8703

Company Tele. Number: 1-800-253-4942 / (001) 563-690-0484

E-Mail Address: info@ibisci.com

2. HAZARDOUS IDENTIFICATION

GHS – Classification

Classification: Skin Sensitizer 1 Respiratory Sensitizer 1 Skin Irritant 2 Eye Irritant 2

Signal Word: Danger



Hazard Statements: H315-Causes skin irritation * H319-Causes serious eye irritation * H335-May cause respiratory irritation * H317-May cause an allergic skin reaction * H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled * H303-May be harmful if swallowed * H313-May be harmful in contact with skin.

Precautionary Statements: P261-Avoid breathing dust/fume/gas/mist/vapor/spray * P280-Wear protective gloves/protective clothing/eye protection/face protection * P302+P352-IF ON SKIN: Wash with plenty of soap and water * P304+P340-IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing * P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing * P308+P313-If exposed or concerned, get medical attention/advice.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name:	Glycine	Tris	Sodium Lauryl Sulfate
EC No.:	EEC No. 200-272-2	EEC No. 201-064-4	EEC No. 205-788-1
REACH Reg. No.:	Not Available	Not Available	Not Available
CAS No.:	56-40-6	77-86-1	151-21-3
Weight %:	>1%	>1%	0-1%
Classification:	-	-	F;R11 Xn;R22 Xi;36/38

4. FIRST AID MEASURES

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

Skin Contact: Wash off immediately with soap and plenty of water, removing all contaminated clothes and shoes.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen.

Ingestion: Clean mouth with water and afterwards drink plenty of water.

Notes to Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammable Properties: Not flammable

Flash Point: Not determined

Suitable Extinguishing Media: Dry chemical, CO_2, water spray, regular foam

Hazardous Combustion Products: Carbon oxides, Nitrogen oxides (NOx)

Explosion Data

Sensitivity to Mechanical Impact: Not sensitive

Sensitivity to Static Discharge: Not sensitive

Protective Equip. & Precautions for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equiv.) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Ensure adequate ventilation.

Methods for Containment: Prevent further leakage or spillage, if safe to do so.

Methods for Cleaning Up: Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling: Handle in accordance with good industrial hygiene and safety practice.

Storage: Keep container tightly closed in a dry, cool, and well-ventilated place.

Incompatible Products: Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures: Showers, Eyewash Stations, Ventilation Systems

Personal Protective Equipment

Eye/Face Protection:	Tight fitting safety goggles.
Skin & Body Protection:	Wear protective gloves/clothing.
Respiratory Protection:	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear and colorless liquid
Odor:	No information available
Odor Threshold:	No information available
Decomposition Temp. °C:	No information available
Freezing Point:	No information available
Initial Boiling Point:	No information available
Physical State:	Liquid
pH:	No data available
Flash Point:	Not determined
Autoignition Temp. °C:	No data available
Boiling Point/Range:	No data available
Melting Point/Range:	No data available
Flammability Limits (Air):	Upper-No data available * Lower-No data available
Explosion Limits	No information available
Explosive Properties:	No information available
Oxidizing Properties:	No information available
Evaporation Rate:	No information available
MMHG @ 37.8°C:	No data available
Vapor Density:	No data available
Specific Gravity:	No data available
Solubility:	No information available
Partition Coefficient (n-octanol/water):	No data available
Viscosity:	No information available

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions
Incompatible Products:	Strong oxidizing agents
Conditions to Avoid:	None known based on information supplied
Hazardous Decomposition Products:	Carbon oxides, Nitrogen oxides (NOx)
Hazardous Polymerization:	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information:	Irritating to eye, skin, and respiratory system. Sensitizer. May be harmful if swallowed. May be harmful if absorbed through skin.
Chemical Name:	Sodium Lauryl Sulfate - #151-21-3
LD50 Oral:	1288mg/kg (Rat)
LD50 Dermal:	580mg/kg (Rabbit)
LC50 Inhalation:	3900mg/m^3 (Rat) 1hr

Chronic Toxicity

Chronic Toxicity: No known effect based on information supplied.

Target Organ Effects: Lungs.

12. ECOLOGICAL INFORMATION

Ecotoxicity: The environmental impact of this product has not been fully investigated

Chemical Name:	Sodium Lauryl Sulfate - #151-21-3
Toxicity to Algae:	EC50 = 3.59-15.6mg/L (96h) EC50 = 117mg/L (96h) EC50 = 53mg/L (72h) EC50 = 30-100mg/L (96h)
Toxicity to Fish:	LC50 = 15-18.9mg/L Pimephales promelas (96h) LC50 = 4.06-5.75mg/L Lepomis macrochirus (96h) LC50 = 4.2-4.8mg/L Lepomis macrochirus (96h) LC50 = 6.2-9.6mg/L Pimephales promelas (96h) LC50 = 4.2mg/L Oncorhynchus mykiss (96h) LC50 = 13.5-18.3mg/L Poecilia reticulata (96h) LC50 = 5.8-7.5mg/L Pimephales promelas (96h) LC50 = 9.9-20.1mg/L Brachydanio rerio (96h) LC50 = 10.2-22.5mg/L Pimephales promelas (96h) LC50 = 8-12.5mg/L Pimephales promelas (96h) LC50 = 4.5mg/L Lepomis macrochirus (96h) LC50 = 4.62mg/L Oncorhynchus mykiss (96h) LC50 = 10.8-16.6mg/L Poecilia reticulata (96h) LC50 = 22.1-22.8mg/L Pimephales promelas (96h) LC50 = 4.3-8.5mg/L Oncorhynchus mykiss (96h) LC50 = 1.31mg/L Cyprinus carpio (96h) LC50 = 7.97mg/L Brachydanio rerio (96h)
Microtox	-
Daphnia Magna (Water Flea):	EC50 = 1.8mg/L (48h)
Log Pow	1.6

13. DISPOSAL CONSIDERATIONS

Water Disposal Method: Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging: Dispose of in accordance with all federal, state, and local regulations.

14. TRANSPORT INFORMATION

IATA

Not regulated

US DOT

Not regulated

15. TOXICOLOGICAL INFORMATION

REACH Title VII Restrictions No information available

Chemical Name:	Glycine / Tris / Sodium Lauryl Sulfate
Dangerous Substances:	Not applicable
Organic Solvents:	Not applicable
Harmful Substances Whose Names are to be indicated on the Label:	Not applicable
Pollution Release and Transfer Registry (Class II):	Not applicable
Pollution Release and Transfer Registry (Class I):	Not applicable

Poison and Deleterious Substances Control Law:	Not applicable
ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying:	Not applicable
ISHA – Harmful Substances Requiring Permission:	Not applicable
Toxic Chemical Classification Listing (TCCL):	Not applicable
Toxic Release Inventory (TRI) – Group I:	Not applicable
Toxic Release Inventory (TRI) – Group II:	Not applicable

International Inventories

TSCA:	Does not comply
EINECS/ELINCS:	Does not comply
ENCS:	Does not comply
IECSC:	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

U.S. Federal Regulations

SARA 313 Section 313 of Title III of the superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain a chemical/chemicals which are subject to the reporting requirements of the Act & Title 40 of the Code of Federal Regulations, part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

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).

Clean Air Act This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

U.S. State Regulations

California Proposition 65 This product does not contain any Proposition 65 chemicals.

International Regulations

Mexico No information available

Canada No information available

WHMIS Hazard Class

D2A – Very toxic materials
D2B – Toxic materials



16. OTHER INFORMATION

Issuing Date:	11-Jul-2003
Revision Date:	29-Jun-2018
Revision Note:	Updated address and logo
Recommended Restrictions:	No information available
Disclaimer:	The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal, and release; and is not to be considered as 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 material or in any process, unless specified in the test.

End of Safety Data Sheet