SAFETY DATA SHEET



Revision date 25-May-2022

Revision Number 2

1. Identification

Product identifier

Product Name

Trans-Blot Turbo 5x Transfer Buffer

Other means of identification

Catalog Number(s)

10026938

Recommended use of the chemical and restrictions on use

Recommended use

Laboratory chemicals

Details of the supplier of the safety data sheet

Corporate Headquarters Bio-Rad Laboratories Inc.

1000 Alfred Nobel Drive Hercules, CA 94547

Manufacturer Address

Bio-Rad Laboratories, Life Science Group Bio-Rad Laboratories 2000 Alfred Nobel Drive

Hercules, California 94547

Life Science 2000 Alfred Nobel Drive Hercules, California 94547

Technical Service

1-800-424-6723 support@bio-rad_com

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC USA: 1 (800) 424-9300

2. Hazard(s) identification

Classification

Serious eye damage/eye irritation

Category 2A

Legal Entity / Contact Address

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Warning

Hazard statements Causes serious eye irritation



Appearance aqueous solution

Physical state Liquid

Odor Odorless

Page 1/9 AGHS / EN

Trans-Blot Turbo 5x Transfer Buffer

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear eye protection/ face protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes, Remove contact lenses, if present and easy to do, Continue rinsing If eye irritation persists: Get medical advice/attention

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

Other information

Causes mild skin irritation, Harmful to aquatic life with long lasting effects. Harmful to aquatic life,

3. Composition/information on ingredients

Substance

Not applicable

Mixture

Chemical name	CAS No	Weight-%	Trade secret
Sodium lauryl sulfate	151-21-3	2.5 - 5	29.0

[&]quot;The exact percentage (concentration) of composition has been withheld as a trade secret

4. First-aid measures

Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance.

Inhalation Eve contact Remove to fresh air.

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing, Do not rub affected area, Get medical attention if irritation develops and

Revision date 25-May-2022

persists

Skin contact

Wash skin with soap and water.

Ingestion

Rinse mouth, Never give anything by mouth to an unconscious person, Do NOT induce

vomiting, Call a physician,

Self-protection of the first aider

Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Symptoms

May cause redness and tearing of the eyes, Burning sensation, Prolonged contact may

cause redness and imitation,

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically

Page 2/9 AGHS / EN

5. Fire-fighting measures

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Specific hazards arising from the

No information available.

Explosion data

Sensitivity to mechanical impact None

Sensitivity to static discharge None,

precautions for fire-fighters

Special protective equipment and Firefighters should wear self-contained breathing apparatus and full firefighting lumout

Revision date 25-May-2022

gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes or clothing, Use personal protective equipment as required, Personal precautions

Other information Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product,

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store according to

product and label instructions.

8. Exposure controls/personal protection

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational **Exposure Limits**

exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls Showers

AGHŞ / EN Page 3/9 Trans-Blot Turbo 5x Transfer Buffer

Revision date 25-May-2022

Evewash stations Ventilation systems,

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions, If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

None known

None known

None known

None known

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product.

9. Physical and chemical properties

Information on basic physical and chemical properties Physical state

Appearance aqueous solution

Color colorless Odor Odorless

Odor threshold No information available

Property Values Remarks • Method None known

Melting point / freezing point No data available Boiling point / boiling range > 100 °C / 212 °F

Flash point No data available None known Evaporation rate No data available None known

Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

Lower flammability or explosive No data available

limits

Vapor pressure No data available Vapor density No data available Relative density No data available

Water solubility Miscible in water Solubility(ies) No data available None known None known

Partition coefficient No data available Autoignition temperature 248 °C / 478.4 °F Decomposition temperature

None known Kinematic viscosity No data available None known Dynamic viscosity No data available None known

Other information

Bulk density

No information available **Explosive properties** Oxidizing properties No information available Softening point No information available Molecular weight No information available VOC Content (%) No information available Liquid Density No information available

10. Stability and reactivity

No information available

AGHS / EN Page 4/9

Revision date 25-May-2022

Reactivity No information available.

Chemical stability Stable under normal conditions,

Possibility of hazardous reactions None under normal processing,

None known based on information supplied Conditions to avoid

Incompatible materials None known based on information supplied,

Hazardous decomposition products None known based on information supplied

11. Toxicological information

Information on likely routes of exposure

Product Information

Skin contact

Specific test data for the substance or mixture is not available. May cause irritation of Inhalation

respiratory tract,

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

Specific test data for the substance or mixture is not available. May cause imitation. Prolonged contact may cause redness and imitation. Causes mild skin imitation.

Specific test data for the substance or mixture is not available. Ingestion may cause Ingestion gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

May cause redness and learing of the eyes. Prolonged contact may cause redness and Symptoms

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document ATEmix (oral) 18,481,2476 mg/kg
ATEmix (dermal) 35,719,40 mg/kg ATEmix (inhalation-dust/mist) 30,20 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium lauryl sulfate 151-21-3	= 1288 mg/kg (Rat)	= 200 mg/kg (Rabbit)	> 3900 mg/m³ (Rat) 1 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Classification based on data available for ingredients, Causes mild skin irritation. Skin corrosion/irritation

Serious eye damage/eye irritation Classification based on data available for ingredients, Causes serious eye irritation,

No information available Respiratory or skin sensitization

Page 5/9 AGHS / EN

Trans-Blot Turbo 5x Transfer Buffer

Revision date 25-May-2022

No information available Germ cell mutagenicity

No information available, Carcinogenicity

No information available Reproductive toxicity

STOT - single exposure No information available,

No information available, STOT - repeated exposure

No information available Aspiration hazard No information available... Other adverse effects

No information available, Interactive effects

12. Ecological information

Harmful to aquatic life with long lasting effects. Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium lauryl sulfate 151-21-3	EC50: 3.59 - 15.6mg/L (96h, Pseudokirchneriella subcapitata) EC50: 30 - 100mg/L (96h, Desmodesmus subspicatus) EC50: =117mg/L (96h, Pseudokirchneriella subcapitata) EC50: =53mg/L (72h, Desmodesmus subspicatus)	LC50: 10.2 - 22.5 mg/L (96h, Pimephales promelas) LC50: 10.8 - 16.6 mg/L (96h, Poscilia reticulata) LC50: 13.5 - 18.3 mg/L (96h, Poscilia reticulata) LC50: 13.5 - 18.3 mg/L (96h, Pimephales promelas) LC50: 22.1 - 22.8 mg/L (96h, Pimephales promelas) LC50: 22.1 - 22.8 mg/L (96h, Pimephales promelas) LC50: 4.0 - 5.75 mg/L (96h, Pimephales promelas) LC50: 4.2 - 4.8 mg/L (96h, Lepomis macrochirus) LC50: 4.3 - 8.5 mg/L (96h, Pimephales promelas) LC50: 5.8 - 7.5 mg/L (96h, Pimephales promelas) LC50: 6.9 - 9.6 mg/L (96h, Pimephales promelas) LC50: 9.9 - 20.1 mg/L (96h, Pimephales promelas) LC50: 9.9 - 20.1 mg/L (96h, Cyprinus carpio) LC50: =1.31 mg/L (96h, Cyprinus carpio)		EC50: =1,8mg/L (48h, Daphnia magna)

Page 6/9 AGHS / EN

Brachydanio rerio)

Persistence and degradability

No information available,

Bioaccumulation

Component Information

Partition coefficient
1.6

Other adverse effects

No information available

13. Disposal considerations

Waste treatment methods

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging

Do not reuse empty containers,

14. Transport information

DOT

Not regulated

TDG

Not regulated

MEX

Not regulated

IATA

Not regulated

IMDG

Not regulated

15. Regulatory information

International Inventories

Contact supplier for inventory compliance status

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications

AGHS / EN

Page 7/9

Revision date 25-May-2022

Trans-Blot Turbo 5x Transfer Buffer

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

Revision date 25-May-2022

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances 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

US State Regulations

<u>California Proposition 65</u> This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Perinsylvania
Water 7732-18-5		•	X

16. Other information

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

NFPA HMIS	Health hazards Health hazards		Flammability Flammability		Instability 0 Physical hazards	0	Special hazards - Personal protection	Х
	eviations and acro POSURE CONTRO A (time-weighted av dmum limit value	LS/PEF	SONAL PROT	ty data she ECTION TEL		Term	Exposure Limit)	
Key literature reference Agency for Toxic Subst. U.S. Environmental Pro European Food Safety. EPA (Environmental Pro European Food Safety. EPA (Environmental Pro U.S. Environmental Pro Good Research Journal Hazardous Substance Unternational Uniform CI National Institute of Tec Australia National Indus NIOSH (National Library of Medi National Library of Medi National Library of Medi National Toxicology Pro New Zealand's Chemics Organization for Econor	ces and sources for ances and Disease lection Agency Che Authority (EFSA) ottection Agency Ine Level(s) (AEGL) (Lection Agency Fod tection Agency Fed tection Agency High Database nemical Information Amology and Evaluatrial Chemicals Notite for Occupational 1 cline's Chemit Plus cine's PubMed data gram (NTP) Il Classification and nic Co-operation an inc Co-operation an inc Co-operation and inc Co-operation	Registry mView [s)) eral Inse Produc Databastion (NIT fication is Safety a (NLM C base (N Informa d Develo d Develo	(ATSDR) Database cticide, Fungicit tion Volume Ch se (IUCLID) TE) and Assessmen ad Health) LM PUBMED) tion Database (topment Environ) poment High Pro	de, and Rodemicals 1 Scheme (CCID) ment, Heali	denticide Act NICNAS) th, and Safety Public	ations	s.	

AGHS / EN Page 8/9

Revision date 25-May-2022

World Health Organization

Revision date

Revision Note

25-May-2022 Significant changes throughout SDS, Review all sections.

Revision Note <u>Disclaimer</u>

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.

End of Safety Data Sheet

Page 9/9 AGHS / EN