SAFETY DATA SHEET (SDS)

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

Product Name: Flow Staining Buffer (1x)
Catalog Number: PF00012

Company/undertaking Identification:
Proteintech Group
5500 Pearl Street
STE 400
Rosemont, IL 60018
312-455-8498
proteintech@ptglab.com
Emergency telephone number:
312-455-8498

2. HAZARDOUS IDENTIFICATION:

None

3. INGREDIENT COMPOSITION/INFORMATION:

Aqueous liquid solution composed of antibody with less than 1% sodium azide. No ingredients are hazardous, or the concentration of all chemicals are below the regulatory threshold limits according to OSHA criteria.

4. FIRST AID MEASURES:

General Advice	Consult a physician if symptoms occur.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Ingestion	Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES:

General Fire Hazards: Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water spray to keep fire-exposed containers cool.
Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.
Specific hazards arising from the chemical: Fire or excessive heat may produce hazardous decomposition products.
Special protective equipment for firefighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions: Contact local authorities in case of spillage to drain/aquatic environment. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.
Environmental precautions: Avoid releasing into the environment.
Methods and materials for containment and cleaning up: Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams.

7. HANDLING AND STORAGE:

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Avoid contact with eyes, skin, and clothing. Recommended storage temperature: 2 - 8 °C

8. EXPOSURE CONTROLS/PPE:

Contains no substances with occupational exposure limit values.
Personal protective equipment
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.
Respiratory protection
If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Hand protection
Chemical resistant gloves Suitable gloves can be recommended by the glove supplier. Wash hands after contact.
Eye protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin and body protection
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene measures
Observe good industrial hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical state @ 40C: Liquid
Color: Clear
Odor: Odorless
Odor threshold pH: Not available.
Melting point: Not available.
Boiling point: Not available.
Flash point: Not available.
Burning time: Not applicable.
Burning rate: Not applicable
Evaporation rate: Not available.
Flammability (solid, gas): Not available.
Lower and upper explosive (flammable) limits: Not available.
Vapor pressure: Not available.
Vapor density: Not available.
Relative density: Not available.
Solubility: Soluble
Partition coefficient: Not available.
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
SADT: Not available.
Viscosity: Not available.

10. STABILITY AND REACTIVITY:

Chemical stability: Stable under normal conditions and recommended use
Possibility of hazardous reactions: No data available
Conditions to avoid: Avoid exposure to high temperatures or direct sunlight.
Incompatible materials: Metals. Water reactive material.
Hazardous decomposition products: Stable; however, may decompose if heated.

11. TOXICOLOGICAL INFORMATION:

Oral LD50: no data available
Inhalation LC50: no data available
Dermal LD50
Other information on acute toxicity: no data available
Skin corrosion/irritation: no data available
Serious eye damage/eye irritation: Eyes: no data available
Respiratory or skin sensitization: no data available
Germ cell mutagenicity: no data available
Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity: no data available
Teratogenicity: no data available
Specific target organ toxicity - single exposure (Globally Harmonized System): no data available
Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available
Aspiration hazard: no data available

Potential health effects
Inhalation: Limited inhalation hazard at normal work temperatures.
Ingestion: No harmful effects expected in amounts likely to be ingested by accident.
Skin: Negligible irritation to skin at ambient temperatures Eyes: Causes eye irritation.
Eye: Elevated temperatures or mechanical action may form vapors, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs.
Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Synergistic effects: no data available
Additional Information: RTECS: Not available

12. ECOLOGICAL INFORMATION:

Acute hazards to the aquatic environment but no data not yet available.

13. DISPOSAL CONSIDERATIONS:

General information: Dispose of waste and residues in accordance with local authority requirements.

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging: No data available

14. TRANSPORT INFORMATION:

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION:

OHSA Hazards: Contains Formaldehyde (CAS# 50-00-0) classified as hazardous under OSHA regulations.
CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable Quantity
Phosphoric acid, sodium salt (1:2)	5000 lbs
Sodium azide (NA(N_3))	1000 lbs

SARA 302:

Chemical Identity	Reportable Quantity	Threshold Planning Quantity
Sodium Azide	1000 lbs	500 lbs

SARA 311/312:

CERCLA Hazardous Substance List (40 CFR 302.4):	
Chemical Identity	Reportable Quantity
Sodium azide (NA(N_3))	500 lbs

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

CERCLA Hazardous Substance List (40 CFR 302.4):	
Chemical Identity	Reportable Quantity
Phosphoric acid, sodium salt (1:2)	5000 lbs

Massachusetts Right To Know Components

Sodium Azide	CAS 26628-22-8

16. OTHER INFORMATION:

Reason for revision: Initial release of SDS
Revision number: 0
Revision: 08/16/2021

The above information is believed to be correct but should only be used as a guide for experienced personnel. Proteintech Group Inc. will not be liable for any damage resulting from the handling of or from contact with the above product. This SDS does not purport to be all-inclusive.

For lab use only, not for diagnostic or therapeutic work.