1. Identification of the substance/preparation and of the company

Product name:	Elution Buffers # 1, 2, 3
Use of the substance:	for in vitro diagnostic use Catalogue # (see attached) 800 mL
Company Identification: Manufacturer:	Tosoh Corporation Shiba-Koen First Building 3-8-2, Shiba Minato-ku Tokyo 105-8623 (JAPAN)
Company Identification: Supplier:	Tosoh Bioscience, Inc. 6000 Shoreline Ct., Ste. 101 S. San Francisco, CA 94080
Product information (6 a.m. to 5 p.m. PST)	1-800-248-6764
Medical Emergencies (24 HR):	Hazard Information Services 1-800-228-5635 612-221-3999
DOT Emergency (24 HR):	Hazard Information Services 1-800-228-5635 612-221-3999

2. Composition/information on substances

Substance/Preparation:

Ingredient name	CAS number	% (optional)
Sodium azide	26628-22-8	<0.1

3. Hazards identification

Classification:	The preparation is not classified as dangerous according to directive 1999/45/EC
Physical/chemical hazards:	Not applicable
Human health hazards:	Harmful if swallowed
Environmental hazards:	Not applicable

4. First aid measures

Effects and symptoms

Inhalation:	No known significant effects or critical hazards.
Ingestions:	Harmful if swallowed.
Skin contact:	No known significant effects or critical hazards.
Eye contact:	No known significant effects or critical hazards.

First aid measure:

Inhalation:	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.
Ingestions:	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
Skin contact:	In case of skin contact, immediately flush skin copiously with water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention immediately.
Eye contact:	In case of eye contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Obtain medical attention immediately.

5. Fire-fighting measures

Extinguishing media:	Use an extinguishing agent suitable for surrounding fires.
Special exposure hazards:	No specific hazards.
Special protective equipment for fire fighters:	Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions:	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8).
Environmental precautions	Avoid dispersal of spilled material and run-off from contact with soil, waterways, drains and sewers.

Methods for cleaning up:	If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be added in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills, surround spilled material or otherwise contain material to ensure that run-off does not reach soil, waterways, drains or sewers. Place spilled material in an appropriate container for disposal.

7. Handling and storage

Handling:	When handling, avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage:	For storage, keep unopened container closed at refrigerated temperature 2-8 ºC.
Packaging materials:	Recommended: use original containers when able.
Specific uses:	Not applicable.

8. Exposure controls/personal protection

Exposure controls	Sodium azide	Occupational exposure limits STEL: 0.3 mg/m^3 15 minutes TWA: 0.1 mg/m^3 8 hours
Occupational exposure controls:	Provide exhaust ventilation or other engineered controls to keep the airborne concentration of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.	
Respiratory protection:	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates that this is necessary. Respirator selection must be based upon known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.	
Hand protection:	Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates that this is necessary. 4-8 hours breakthrough time nitrile rubber gloves.	
Eye protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates that this is necessary to avoid exposure to liquid splashes, mists or dusts.	
Skin protection	Personal protective equipment for the body should be selected based upon the task being performed and the risks involved and should be approved by a specialist before handling this product. A lab coat is recommended.	

9. Physical and chemical properties

Physical state:	Liquid
Color:	Colorless
Odor:	Odorless
pH:	7-8
Boiling point:	Not available
Melting point:	Not available
Flash point:	Not available
Flammability (solid/gas):	Not available
Explosive properties:	Not available
Explosive limits:	Not applicable
Oxidizing properties:	Not available
Vapor pressure:	Not available
Specific gravity:	Not applicable
Solubility:	Easily soluble in cold water
Octanol/water partition coefficient:	Not available
Viscosity:	Not available
Vapor density:	Not available
Evaporation rate (butyl acetate = 1):	Not available
Auto-ignition temperature:	Not available

10. Stability and reactivity

Stability:	The product is stable.
Conditions to avoid:	Not available
Materials to avoid:	Keep away from oxidizing reagents
Hazardous decomposition products:	Not available
Hazardous polymerization:	Hazardous polymerization will not occur

11. Toxicological information

Potential acute health effects:

Inhalation:	No known significant effects or critical hazards.
Ingestion:	Harmful if swallowed
Skin contact:	Irritating to skin.
Eye contact:	Irritating to eyes.

Acute toxicity:

Ingredient name	Test	Result	Route	Species
Sodium azide	LD50	27 mg/kg	Oral	Rat
	LD50	20 mg/kg	Dermal	Rabbit

Potential chronic health effects:

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Reproductive Toxicity: No known significant effects or critical hazards.

12. Ecological information

Ecotoxicity data: Not applicable

Other ecological information:

Mobility: Not available

Other adverse effects: No known significant effects or critical hazards.

13. Disposal considerations

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and run-off and avoid contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Hazardous waste: The classification of this product may meet the criteria for a hazardous waste.

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information if required
ADR/RID Class	3288	TOXIC SOLID, INORGANIC, N.O.S. (Sodium azide)	NA	NA	NA	Not available
ADN Class	3288	TOXIC SOLID, INORGANIC, N.O.S. (Sodium azide)	NA	NA	NA	Not available
IMDG Class	3288	TOXIC SOLID, INORGANIC, N.O.S. (Sodium azide)	NA	NA	NA	Not available
IATA-DGR Class	3288	TOXIC SOLID, INORGANIC, N.O.S. (Sodium azide)	NA	NA	NA	Not available

15. Regulatory information

Hazard symbols:	Non-applicable
Risk phrases:	Non-applicable
Safety phrases:	Non-applicable
Product use:	In vitro diagnostic use

16. Other information

History:

Date of printing:	_____
Date of issue:	
Date of previous issue:	11-01-2007
Version:	2.0
Prepared by:	Michael Golob

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

List of Catalogue numbers for Elution Buffers:

Catalogue Number	Product Name	Analyzer
021849	G8 Variant Elution Buffer 1	G8
021850	G8 Variant Elution Buffer 2	G8
021851	G8 Variant Elution Buffer 3	G8
019552	Elution Buffer No 1	G7
019553	Elution Buffer No 2	G7
019554	Elution Buffer No 3	G7
018572	Elution Buffer HSi Variant No 1 800 mL	A1c 2.2.Plus
018573	Elution Buffer HSi Variant No 2 800 mL	A1c 2.2.Plus
018574	Elution Buffer HSi Variant No 3 800 mL	A1c 2.2.Plus
018764	Elution Buffer HSi Variant No 1 2000 mL	A1c 2.2.Plus
018765	Elution Buffer HSi Variant No 2 2000 mL	A1c 2.2.Plus
018766	Elution Buffer HSi Variant No 3 2000 mL	A1c 2.2.Plus