

Safety Data Sheet

1: Identification of substance / mixture

1. Product Identifier

Mixture

Product Name **5x APTS Sample Load Buffer**
Product Code WS0301 or WS0301-24
CAS Number NA
Other Names
IUPAC NA
MFCN Number NA
EC/EINECS NA
REACH Number NA

2. Relevant identified uses of the substance or mixture and uses advised against

Research and Development

3. Details of the supplier of the safety data sheet

ProZyme, Inc
3832 Bay Center Place,
Hayward
CA
94545-3619
USA

Telephone: +1 (510) 638-6900
Fax number: +1 (510) 638 6919
Email: info@prozyme.com



4. Emergency telephone number

+1 (760) 476 3961

2. Hazards Identification

1. Classification of the substance or mixture

H302	Acute Tox. 4	R22, R20/22, R20/21/22, R21/22, R68/20/22, R68/21/22, R68/20/21/22
H315	Skin Irrit. 2	R38, R36/38, R36/37/38, R37/38
H335	STOT SE 3a	R37, R36/37, R36/37/38, R37/38
H413	Aquatic Chronic 4	R53

* The risk codes have been generated using Annex VII of directive 67/548/EEC. Risk code combinations are not included.

2. Label elements

Signal Word **Warning**



Hazard Statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H413	May cause long lasting harmful effects to aquatic life.

Precautionary Phrases

P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

Safety Data Sheet

3. Composition / Information on Ingredients

1. Substances

Not Relevant

2. Mixtures

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Concentration	Product Name	CAS Number	EC/EINECS
0.05%	Sodium Azide	26628-22-8	247-852-1
< 10%	Ammonium Formate	540-69-2	208-753-9

4. First Aid Measures

1. Description of first aid measures

<i>Skin Contact</i>	Rinse with plenty of soap and water. If symptoms arise, call a physician.
<i>Eye Contact</i>	Rinse with plenty of water for at least 15 minutes. If symptoms arise, call a physician.
<i>Ingestion</i>	Wash out mouth with water. Never give anything by mouth to an unconscious person. If symptoms arise, call a physician. Do not induce vomiting without medical advice.
<i>Inhalation</i>	Move to fresh air. If symptoms arise, call a physician. If not breathing, give artificial respiration.

2. Most important symptoms and effects

Irritation and redness may occur upon contact with skin. Irritation, pain, redness or watering may occur upon contact with eyes. Irritation and coughing may occur upon inhalation.

3. Indication of any immediate medical attention

Obtain medical attention in the event of any acute or delayed symptoms.

5. Firefighting measures

1. Extinguishing Media

<i>Suitable</i>	Water, alcohol-resistant foam, chemical foam or dry chemical powder.
<i>Unsuitable</i>	NA

2. Special Hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions: carbon oxides, nitrogen oxides, metal azides.

3. Advice for Fire Fighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Sodium Azide may react with lead and copper plumbing to form highly explosive metal azides.

6. Accidental Release Measures

1. Personal Precautions

Refer to section 8 of SDS for personal protection details. Do not inhale or ingest.

2. Environmental Precautions

Do not discharge into drains or rivers.

3. Methods & Materials

Absorb small spills with appropriate absorbent material. Place in suitable container and hold for disposal. Wash spill site after material has been removed.

Safety Data Sheet

7. Handling and Storage

1. Personal Precautions

Safe Handling Wear appropriate protective clothing (safety glasses, gloves, laboratory coat). Handle in accordance with all current regulations and standards.

Protection against explosions and fires Sodium Azide may react with lead and copper plumbing to form highly explosive metal azides.

2. Conditions for safe storage, including any incompatibilities

Managing Storage Risks Store according to instructions in product labeling.

Storage Controls Store according to product labeling. Handle and store in accordance with all current regulations and standards.

Maintaining Integrity Store according to instructions in product labeling.

Other advice NA

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

Not Applicable

2. Exposure Controls

General protective and hygiene measures Wear appropriate protective clothing (safety glasses, gloves, laboratory coat). Handle and store in accordance with all current regulations and standards.

Engineering measures Ensure adequate ventilation. Do not transfer through lead or copper tubing or pipes. Sodium Azide may react with lead and copper plumbing to form highly explosive metal azides.

Eye / Face Protection Safety Glasses with side-shields.

Hand protection Protective gloves.

Respiratory protection Respiratory protection not required under normal handling conditions.

Skin protection Wear appropriate protective clothing (safety glasses, gloves, laboratory coat).

Other personal protection advice NA

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	colorless liquid
Odour	Not Available
Odour threshold	Not Available
PH	Not Available
Melting point / Freezing point	Not Available
Initial boiling point and boiling range	Not Available
Flash point	Not Available
Evaporation rate	Not Available
Flammability(solid,gas)	Not Available
Upper/lower flammability or explosive limits	Not Available
Vapour pressure	Not Available

Safety Data Sheet

Vapour density	Not Available
Relative density	Not Available
Solubility(ies):	Not Available
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
Viscosity	Not Available
Explosive properties	Not Available
Oxidising properties	Not Available

2.Other Information

NA

10.Stability and Reactivity

1.Reactivity

Stable under recommended storage conditions. No dangerous reaction known under conditions of normal use.

2.Stability

Stable under recommended storage conditions.

3.Possibility of Hazardous Reactions

NA

4.Conditions to Avoid

NA

5.Incompatible Materials

Strong oxidizing agents, reducing materials, metals, acids and alkalis.

6.Hazardous Decomposition Products

Sodium azide can react with heavy metals to form explosive azides. Ammonium formate decomposition products include nitrogen oxides, carbob momoxide, carbon dioxide and ammonia.

11.Toxicology information

1.Information

<i>Acute Toxicity</i>	No data available for the mixture. For Sodium Azide LD50 oral rat: 27 mg/kg; LD50 dermal rabbit: 20 mg/kg. For 97% Ammonium Formate LD50 oral mouse: 2250mg/kg
<i>Skin corrosion/irritation</i>	May cause skin irritation.
<i>Serious eye Damage/irratation</i>	May cause eye irritation.
<i>Respiratory or skin sensitisation</i>	May be harmful if inhaled.
<i>Germ Cell mutagenicity</i>	No data available.
<i>Carcinogenicity</i>	No data available.
<i>Reproductive toxicity</i>	No data available.
<i>STOT-single exposure</i>	No data available.
<i>STOT-repeated exposure</i>	No data available.

Safety Data Sheet

Aspiration hazard

May be harmful if inhaled.

2.Additional

Ingestion of sodium azide has been reported to cause shortness of breath, nausea, vomiting, restlessness, diarrhea, lowering of blood pressure (hypotension), and collapse.

12.Ecological Information

1.Toxicity

Ecological effects of this mixture have not been determined. Sodium azide has been reported as toxic to aquatic life.

2.Persistence and degradability

No data available.

3.Bio-Accumulative Potential

No data available.

4.Mobility and Soil

No data available.

5.Results of PBT & vPvB assessment

No data available.

6.Other adverse effects

No data available.

13.Disposal Considerations

1.Waste Treatment Methods

Disposal Operations Do not allow product to reach sewage system. Dispose of according to current regulations and standards.

Disposal of Packaging Dispose of as unused product.

14. Transport Information

Air (ICAO)

Not classified as hazardous for transport

Road (ADR)

Not classified as hazardous for transport

Sea (IMDG)

Not classified as hazardous for transport

15.Safety, health and environmental regulations

1.Safety, health and environmental regulations:

Safety Data Sheet

No data available.

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

ADR: Accord Europeen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by road)

RID: Reglement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the ICAO

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service

2. Associated risk phrases according to european directive 67/548/EEC

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R20/22	Harmful by inhalation and if swallowed.
R21/22	Harmful in contact with skin and if swallowed.
R22	Harmful if swallowed.
R36/37	Irritating to eyes and respiratory system.
R36/37/38	Irritating to eyes, respiratory system and skin.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.
R37/38	Irritating to respiratory system and skin.
R38	Irritating to skin.
R53	May cause long-term adverse effects in the aquatic environment.
R68/20/21/22	Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.
R68/20/22	Harmful: possible risk of irreversible effects through inhalation and if swallowed.
R68/21/22	Harmful: possible risk of irreversible effects in contact with skin and if swallowed.



3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.

The above information is supplied in good faith and is believed to be correct. It does not claim to be all-inclusive and is intended to be used only as a guide. Final determination of the suitability of any material is the sole responsibility of the user. ProZyme shall not be held responsible for any damage resulting from handling or contact with the above product. This product is intended for in vitro research only.