SAFETY DATA SHEET

 Issue Date:
 May 20, 2020

 Review Date:
 March 23, 2022

 Version:
 Plasm - ly - 1.3



Section 1 - Product and Company Identification

1.1 Product Name: PhyPrep Lysis Buffer

1.2 Recommended Use: R&D use

1.3 Manufacturers Name: PhyNexus, part of Biotage

3670 Charter Park Drive San Jose, CA 95136

U.S.A.

1.4 Contact details:

Europe

Telephone: +46 18 56 59 11 8:00a.m. - 5:00p.m. CET

e-mail: <u>eu-1-pointsupport@biotage.com</u>

Japan

Telephone: +81 3 5627 3123 9:00a.m. - 6:00p.m. local time

e-mail: <u>jp-1-pointsupport@biotage.com</u>

North & Latin America

Telephone: +1 800 446 4752 8:00a.m. - 5:00p.m. EST

e-mail: <u>us-1-pointsupport@biotage.com</u>

China

Telephone: +86 21 2898 6655 8:30a.m. - 5:30p.m. local time

e-mail: <u>cn-1-pointsupport@biotage.com</u>

Korea

Telephone: +82 31 706 8500 8:30a.m. - 5:30p.m. local time

e-mail: <u>kr-1-pointsupport@biotage.com</u>

Australia (Distributor Shimadzu)

Telephone: +61 2 9684 4200 Unit F, 10-16 South St., Rydalmere,

NSW 2116 Australia

e-mail: info@shimadzu.com.au

Section 2 - Hazards Identification

2.1 Classification of the product

Classification according to Regulation (EC) No 1272 / 2008

Skin irritation (Category 2) H315 Causes skin irritation Eye irritation (Category 2) H319 Causes serious eye irritation

2.2 Label elements

Labelling according to Regulation (EC) No 1272 / 2008

Pictogram

(!)

Signal word Warning

Caution – substance not yet tested completely

Hazard Statements

H315 Causes skin irritation
H319 Causes serious eye irritation

Precautionary Statements

P280 Wear protective gloves / eye protection / face protection

P305 + P351 + IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and

P338 easy to do. Continue rinsing

P308 + P313 IF exposed or concerned get medical advice / attention

2.3 Other hazards

No information available

Page 1 of 5 Plasm – ly – 1.3

Section 3 - Composition/Information on Ingredients

Name:	PhyPrep Lysis	PhyPrep Lysis Buffer		
Synonyms:		Aqueous buffers for plasmid purification Base SDS buffered solution, pH 10–11		
CAS - No.	EC - No.	Index - No.	Classification	Concentration

Name:	Sodium hydroxide			
Synonyms:	NaOH			
CAS - No.	EC - No.	Index - No.	Classification	Concentration
1310-73-2	215-185-5		Skin Corr. 1A; H314	< 1%

Name:	SDS			
Synonyms:	Dodecylsodium sulfate, Dodecyl sulfate sodium salt, Lauryl sulfate sodium salt, SDS, Sodium lauryl sulfate			SDS, Sodium lauryl
CAS - No.	EC - No.	Index - No.	Classification	Concentration
151-21-3			Flam. Sol 2; Acute Tox 4; Skin Irrit. 2; Eye Dam. 1; STOT SE 3; Aquatic chronic 3; H228, H302, H315, H318, H412	< 3 %

Name:	Water			
Synonyms:	H ₂ O			
CAS - No.	EC - No.	Index - No.	Classification	Concentration
7732-18-5				95%

Section 4 - First Aid Measures

4.1 Inhalation: If inhaled, move affected person to fresh air. If breathing is difficult give oxygen. If

breathing has stopped give artificial respiration

4.2 Skin Contact: Wash with soap and plenty of water. Seek medical attention if irritation develops or persists

4.3 Eye Contact: Wash thoroughly with plenty of water for at least 15 minutes, separating the eyelids with

the fingers. Seek immediate medical attention

4.4 Ingestion: Wash out mouth with copious amounts of water if person is conscious. Never give anything

by mouth to an unconscious person. Allow water to be drunk. Seek medical attention

Section 5 - Fire-Fighting Measures

5.1 Suitable Extinguishing Media

Not combustible. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Unusual Fire Hazards and Explosion Hazards

Nature of decomposition products not known.

5.3 Special protective equipment for Fire Fighters

Wear self-contained breathing apparatus for firefighting if necessary and appropriate to local circumstances and the surrounding environment.

Section 6 - Accidental Release Measures

6.1 Personal precautions

Ventilate the area thoroughly and shut off sources of ignition. Use protective equipment as described in Section 8. Avoid raising dust. Avoid breathing dust, vapours, mist, or gas. Avoid contact with skin and eyes

6.2 Environmental Precautions

Do not let product enter drains

6.3 Methods and materials for containment and cleaning up

Contain spillage and then collect with non-combustible absorbent material (e.g. sand, diatomaceous earth, vermiculite) Place in suitable, closed containers for disposal according to local regulations (see Section 13).

Page 2 of 5 Plasm – ly – 1.3

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation. Normal measures for preventive fire protection. Avoid ingestion, inhalation, and contact with skin and eyes

7.2 Conditions for safe storage

Keep in a dry and well - ventilated place. Store at room temperature, out of direct sunlight

Section 8 - Exposure Controls / Personal Protection

Components with workplace control parameters

Components	CAS No.	Value	Basis
Sodium hydroxide	1310-73-2	2 mg / m ³	UK. EH40 WEL - Workplace Exposure Limits

8.1 Personal protective equipment

Respiratory protection

In the case of vapour formation use a respirator with an approved filter conforming to EN 136, 140, 149. For nuisance exposures use type P95 (US) or type P1 (EU EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

Hand protection

Handle with gloves. The selected protective gloves must satisfy the specifications of Regulation (EU) 2016 / 425 and the standard EN 374 derived from it. Gloves must be inspected prior to use. Use proper glove removal technique (without touching the outer surface of the glove) to avoid skin contact with product. Dispose of gloves after use in accordance with applicable regulations and good laboratory practice. Wash and dry hands

Eye protection

Safety glasses with side – shields conforming to EN 166, or safety goggles.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)

Skin and body protection

Choose body protection in relation to its type, the concentration, and the amount of any hazardous substance, and to the specific workplace

Hygiene measures

Handle in accordance with good laboratory hygiene and safe practice. Wash hands before breaks and at the end of the workday

Section 9 - Physical and Chemical Properties

9.1 Appearance

Form Liquid

Colour Clear, colourless

9.2 Safety data

pH 10-11

Melting point

Boiling point

100.0°C (lit.)

Flash point

Ignition temperature

Lower explosion limit

Upper explosion limit

Water solubility

No data available

No data available

No data available

Completely miscible

Section 10 - Stability and Reactivity

10.1 Chemical stability

Stable under recommended storage conditions

10.2 Conditions to avoid

Avoid temperatures above 100°C

10.3 Materials to avoid

Strong oxidising agents, aluminium, tin, zinc

10.4 Hazardous decomposition products

In the event of fire: see section 5

Section 11 - Toxicological Information

To the best of our knowledge, the toxicological properties of this material have not been fully investigated

(a) Acute toxicity

No data available

(b) Skin corrosion / irritation

No data available

(c) Serious eye damage / eye irritation

No data available

(d) Respiratory or skin sensitisation

No data available

(e) Germ cell mutagenicity

No data available

(f) Carcinogenicity

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

(g) Reproductive toxicity

No data available

(h) Specific target organ toxicity - single exposure

No data available

(i) Specific target organ toxicity - repeated exposure

No data available

(j) Aspiration hazard

No data available

Potential health effects

Inhalation May cause irritation of the respiratory tract

Ingestion May be harmful if swallowed. May cause irritation of the digestive tract

Skin May cause skin irritation

Eyes May cause eye irritation

Section 12 – Ecological Information

The eco - toxicological properties of this material have not been fully investigated

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bio – accumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 PBT and vPvB assessment

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative and toxic (vPvB) at levels of 0.1% or higher

12.6 Other adverse effects

No data available

Section 13 - Disposal Considerations

13.1 Product

Offer surplus and non – recyclable solutions to a licensed professional waste disposal service to dispose of this material in accordance with local and national regulations

13.2 Contaminated packaging

Dispose of as unused product

Section 14 - Transport Information

Not classified as dangerous goods by ADR / RID, IMDG, or IATA

Section 15 - Regulatory Information

15.1 Safety, health, and environmental regulations / legislation specific for the substance or mixture

This safety data sheet complies with the requirements of Regulation (EU) 2015/830

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors: Neither banned nor restricted

Restrictions on the marketing and use of certain dangerous substances and preparations:

Neither banned nor restricted

Regulation (EC) No 649/2012 of the European Parliament and the Council

Neither banned nor restricted

concerning the export and import of dangerous chemicals

Not listed

Candidate List of Substances of Very High Concern for Authorization US (TSCA)

Note: substances meeting the definition in 40 CFR 723 of the Toxic Substance Control Act (TSCA) are exempt from the notification requirements of the Act.

This material falls within this definition

Section 16 – Other Information

This substance must only be handled by, or under close supervision of those qualified in the handling and use of potentially hazardous substances. This Safety Data Sheet is offered without charge to the clients of Biotage and it is issued only as a guide for safe handling, use, storage, disposal, and release. Information contained on this sheet is the most current available to Biotage at the time of preparation but does not purport to be all inclusive or a guarantee as to the properties of the material supplied. Biotage makes no warranties or representations as to the accuracy and completeness of the information contained herein. Biotage shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

Key to Abbreviations

CAS: Chemical Abstract Service. NIOSH: National Institute for Occupational Safety & Health. ADR / RID: Agreement on Dangerous Goods by Road / Regulations Concerning the transport of Dangerous Goods by Rail. IMDG: International Maritime Dangerous Goods Code. IATA: International Air Transport Association.

Page 5 of 5 Plasm – ly – 1.3