MATERIAL SAFETY DATA SHEET

According to EC Directive 1907/2006 Revision Date: 30.08.12 MS-50128 V02



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

Trade Name : ISOLATE II Plasmid Buffer Set

Catalogue Number : BIO-52078 300 preps

Manufacturer/ Supplier: Headquarters

Bioline Reagents Ltd.

16 The Edge Business Centre

Humber Road

London NW2 6EW

info.uk@bioline.com Tel: +44 (0)20 8830 5300 Fax: +44 (0)20 8452 2822

Further Information Obtainable from: **Europe**

UK - details as above

Germany

info.de@bioline.com Tel: +49 (0)3371 681 229 Fax: +49 (0)3371 681 244

<u>America</u>

info.us@bioline.com

Tel: +1 508 880 8990 Fax: +1 508 880 8993

<u>Australia</u>

info.aust@bioline.com

Tel: +61 (0)2 9209 4180 Fax: +61 (0)2 9209 4763

Other regions

Please contact the UK headquarters

24-Hour Contact in case of emergency : Vergiftungs-Informations-Zentrale

Mathilden Strasse 1 79106 Freiburg GERMANY

Tel: +49 (0) 761 19240

2. HAZARD IDENTIFICATION

Product name

Resuspension Buffer P1 Lysis Buffer P2 **Directive 1999/45/EC**Does not need labelling as

hazardous

Does not need labelling as hazardous

GHS Directive 1272/2008/EC

Does not need labelling as hazardous

WARNING



H290 – Met. Corr. 1 H315 – Skin Irrit.2 H319 – Eye Irrit.2 WARNING

Neutralization Buffer P3

RNase A

(lyophilized)

IRRITANT

HARMFUL

R36 - Irritating to eyes

V

H302 – Acute Tox. 4 oral H319 – Eye Irrit. 2

WARNING



R42/43 – May cause sensitisation by inhalation and skin contact

H317 – Skin Sens. 1A/1B H334 – Resp. Sens. 1A/1B

According to Regulation (EC) No1272/2008

Flammable Liquid (Category 3)

Substance or mixture corrosive to metals (Category 1)

Acute Toxicity, Oral (Category 4)

Skin Irritant (Category 2) Eye Irritant (Category 2)

Specific Target Organ Toxicity - Single Exposure (Category 3)

According to European Directive 67/548/EEC as amended.

Xi – Irritant. Irritating to eyes.

Xn – Harmful. May cause sensitisation by inhalation and skin contact.

Label elements

Pictogram







Signal word

Warning

Hazard statement(s)

H290 Maybe corrosive to metals.
H302 Harmful if swallowed.
H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or

breathing difficulties if inhaled

Precautionary statement(s)

P261S Avoid breathing

dust/fume/gas/mist/vapours/spray

P280sh Wear protective gloves/protective clothing P302+352 IF ON SKIN: wash with plenty of soap and

water

P304+341 IF INHALED: If breathing is difficult, remove

victim to fresh air and keep at rest in a position

comfortable for breathing

P333+313 IF SKIN irritation or rash occurs: Get medical

advice

P342+311 If experiencing respiratory symptoms: call a

POISON CENTER or doctor

P363 Wash contaminated clothing before reuse

Hazard symbol(s)

Xi Irritant Xn Harmful

R-phrase(s)

R36 Irritating to eyes.

R42/43 May cause sensitization by inhalation and skin

contact.

S-phrase(s)

S26-39

S26-37/39 Wear suitable protective clothing and gloves. In

case of contact with eyes, rinse immediately with plenty of water and seek medical advice Wear eye/face protection. In case of contact

with eyes, rinse immediately with plenty of

water and seek medical advice

S16-26-39 Keep away from sources of ignition - No

smoking. Wear eye/face protection. In case of contact with eyes, rinse immediately with plenty

of water and seek medical advice

S22 Do not breathe dust

Other hazards none

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixture of hazardous substances listed below with non-hazardous additions.

Chemical name	CAS-No.	EC-No.	Concentration	Classification		
Lysis Buffer P2						
Sodium hydroxide	1310-73-2	215-185-5	0.5-2%	H290; H315; H319;		
solution				R36/38		
Neutralization Buffer P3						
Guanidine hydrochloride	50-01-1	200-002-3	36-50%	H302; H319; R22-		
				36		
RNase A (lyophilized)						
RNase	9001-99-4	232-646-6	90-100%	H317; H334;		
				R42/43		

4. FIRST AID MEASURES

After Inhalation

Remove to fresh air. Keep airways free.

After Swallowing

Drink lots of water after ingestion.

After Contact with Eyes

Rinse eyes with running water with eyelids open. Tilt the head to prevent chemical transferring to uncontaminated eye.

After Contact with Skin

Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. Use soap if possible.

Note to Physician

No additional recommendations

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

All extinguishers can be used, including fire blankets.

Unusual Fire Hazard

Formation of hazardous and caustic vapour-air mixtures possible. Only when there is a large scale leak is there danger to the environment, or on the formation of hazardous substances.

Fire Fighting Protective Measures

Wear full protective clothing to prevent contact with the skin and eyes.

Wear self-contained breathing equipment to prevent inhalation of explosive or combustion gases. Fight fire from a safe distance and a protected location due to the potential of hazardous vapours and decomposition products. Product package burns like paper of plastic. Spray vapours with water. Retain fire water. Use only acid-resistant safety equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Ensure ventilation is adequate. Only to be used by trained staff.

Refer to section 8 for personal protection equipment recommendations.

Environmental Precautions

Allow into drains only in small amounts with copious amounts of water.

Clean-up Measures

Prevent the spread of any spill in order to minimise harm to human health and the environment if it is safe to do so. Use a liquid-binding material (e.g. sand, sawdust, diatomite etc.) to absorb the spillage. Place in closed containers for disposal. Ventilate area well after clean-up procedures have taken place.

7. HANDLING AND STORAGE

Handling

In accordance with the instructions that come with the product. Use good laboratory handling procedures.

Storage

Packaging allows safe storage. Refer to section 12 for further details.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures

Local exhaust ventilation or other engineering controls are normally required when handling this product to avoid overexposure.

Ingredients with Limit Values

	Sodium hydroxide
CAS No.	1310-73-2
TRGS 900 (DE)	(2E) mg/m ³
Short term exposure factor	=1=
SUVA(CH) MAK value	2e mg/m ³
TRGS 903 (DE)	-
TRGS 905 (DE)	-
NIOSH REL	-
NIOSH STEL	-
OSHA PEL	-

Personal Protection

Respiratory Protection: Only if additional recommendations in test instruction or packing insert.

Eye Protection: An eye wash station must be available where this product is used. Wear chemically resistant, tightly fitting safety goggles or glasses with side-shields, according to EN 166.

Skin Protection: Prevent all contact with this product. Protective gloves, apron, face and further skin protection should be used depending on conditions of use, according to EN 374. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment thoroughly after each use.

Hygiene Practices: Avoid contact with skin or eyes. Do not place in mouth. Do not eat, drink or smoke when handling this product. Upon completion of the use of this product, dispose of protective gloves safely and wash hands thoroughly with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

	Colour	Odour	Appearance	рН	Flash point	Sol. In water
Resuspension Buffer P1	Colourless	Odourless	Liquid	7.5- 8.5	-	-
Lysis Buffer P2	Colourless	Odourless	Liquid	>12	-	-
Neutralization Buffer P3	Colourless	Acetic	Liquid	4-4.5	-	-
RNase A (lyophilized)	Colourless	Odourless	Solid (lyoph)	-	-	0-100%

10.STABILITY AND REACTIVITY

Stability

In original packaging all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

Reactivity

Can form reactive substances with oxidizing agents.

11.TOXICOLOGICAL INFORMATION

Acute toxicity

	Lysis buffer P2 Neutralisation buffer P3		RNase A	
	Sodium hydroxide	Guanidine hydrochloride	RNase	
	1310-73-2	50-01-1	9001-99-4	
LD50 _{ori rat}	500 _{100%} mg/kg	475 mg/kg	-	
LD50 _{ihl rat}	-	5.3 _{4h} mg/m ³	-	
LD50 _{drm rbt}	10 g/kg	>2000 mg/kg	-	
LD_Lowihl gpg	-	-	-	
LD_Low _{orl hmn}	-	-	-	
LD50 _{ihl mouse}	-	-	-	
LD50 _{oral mouse}	-	-	-	
LD50 _{intraperitonaeel rat}	-	-	392 mg/kg	

Data on other components is either not available or not required.

12.ECOLOGICAL INFORMATION

	Resuspension buffer P1	Lysis buffer P2	Neutralisation buffer P3	RNase A
	<1% no declaration necessary	Sodium hydroxide solution	Guanidine hydrochloride	RNase
	<1% no declaration necessary	1310-73-2	50-01-1	9001-99-4
Bio Toxicity	-	-	3/2.6/2.2-3.4	-
WGK (DE)	1	1 (0142)	1 (0788)	1
Storage class (VCI)	12	8B	12	13

Data on other components is either not available or not required.

13.DISPOSAL CONSIDERATIONS

Product Disposal

Must be disposed of according to all local official regulations (waste code: 16 05 06).

Packaging Disposal

Unclean packaging should be disposed of according to all local official regulations.

14.TRANSPORT INFORMATION

Class 3 III, excepted quantities (≤30ml/∑≤1L) = ADR/IATA E1

15.REGULATORY INFORMATION

This safety sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Label elements

Pictogram







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S22 Do not breathe dust

Other hazards none

16.OTHER INFORMATION

The information provided in this Material Safety Data Sheet (MSDS) is accurate to the best of our present knowledge. However, this shall not constitute a guarantee for any specific product features. All substances and preparations may present unknown hazards and should be used with caution. Bioline shall not be held liable for any damage resulting from the handling of or from contact with the above product. The information supplied in this MSDS shall not establish a legally valid contractual relationship.