

# MATERIAL SAFETY DATA SHEET

According to EC Directive 1907/2006  
Revision Date: 11.10.12 MS-50127 V01



A Meridian Life Science® Company

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

Trade Name : ISOLATE II RNA Mini Kit

Catalogue Number : BIO-52079 50 mls

Manufacturer/ Supplier: Headquarters  
Bioline Reagents Ltd.  
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**Other regions**  
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## 2. HAZARD IDENTIFICATION

**Product name**  
Lysis Buffer RLY

**Directive 1999/45/EC**  
Does not need labelling as hazardous

**GHS Directive 1272/2008/EC**  
WARNING



EUH031 – Contact with acids liberates toxic gas  
H302 – Acute Tox. 4 oral  
H412 – Aquatic Chronic 3

According to Regulation (EC) No1272/2008

Acute Toxicity, Oral (Category 4)  
Chronic aquatic toxicity (Category 3)

### Label elements

Pictogram



Signal word

Warning

### Hazard statement(s)

H302  
H412

Harmful if swallowed  
Harmful to aquatic life with long lasting effects

### Precautionary statement(s)

P280sh  
P302+352

Wear protective gloves/eye protection  
IF ON SKIN: Wash with plenty of soap and water

P333+313

IF SKIN irritation or rash occurs: Get medical advice/attention

P363

Wash contaminated clothing before reuse

### Hazard symbol(s)

Xn

Harmful

### R-phrases(s)

R20/21/22

Harmful by inhalation, in contact with skin and if swallowed

R32

Contacts with acids liberates very toxic gas

R52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

### S-phrases(s)

S26-36/37

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Wear suitable protective clothing and gloves

### 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 RLY				
Guanidinium thiocyanate	593-84-0	209-812-1	30-60%	H302; H412; EUH031; R20/21/22-32- 52/53

### 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 or 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

No limits available.

### 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	pH	Flash point	Boiling point	Sol. In water	Specific Gravity
Lysis Buffer RLY	Colourless	Odourless	Liquid	6.5-7.5	-	-	-	1.13g/cm <sup>3</sup>

## 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 RLY Guanidinium thiocyanate 593-84-0
LD50 <sub>ori rat</sub>	593 mg/kg
LD50 <sub>ipr mus</sub>	300 mg/kg

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

## 12.ECOLOGICAL INFORMATION

	Lysis Buffer RLY
	Guanidinium thiocyanate
	593-84-0
WGK (DE)	3
Storage class (VCI)	12

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** ( $\leq 30\text{ml}/\Sigma \leq 1\text{L}$ ) = ADR/IATA E1

## 15.REGULATORY INFORMATION

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

### Label elements

Pictogram



Signal word

Warning

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### S-phrase(s)

S26-36/37

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing and gloves

### 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.