



MATERIAL SAFETY DATA SHEET

According to EC Directive 91/155 EC

Date: 01/05/10

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

1.1. Product Details:

Trade Name: ISOLATE RNA Mini Kit

Catalogue Number: BIO-52042, 10 Reactions

BIO-52043, 50 Reactions

BIO-52044, 250 Reactions

1.2. Company Details:

Manufacturer/ Supplier: Bioline
16 The Edge Business Centre
Humber Road
London
NW2 6EW
Tel: +44 (0)20 8830 5300
Fax: +44 (0)20 8452 2822

Further Information Obtainable from:
Technical Services
Details as above

Emergency Details:

24-Hour Contact in case of emergency:

Vergiftungs-Informations-Zentrale
Mathilden Strasse 1
79106 Freiburg
GERMANY
Tel: +49 (0) 761 19240.

2. Composition/ Information on Ingredients

2.1 Chemical Characterization:

Trade Name: Lysis Buffer R

Chemical Characterization: Aqueous solution of thiocyanate

Dangerous component:

Guanidium thiocyanate

CAS #	EEC #	R phrases	Symbol
593-84-0	209-812-1	20/21/22-32-52/53	Xn

3. Hazards Identification

For Humans: Harmful. Harmful by inhalation, in contact with skin and if swallowed. Contact with acids liberates very toxic gas.

For the Environment: Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

For Materials: Materials should be tested for resistance.

4. First Aid Measures

4.1 After Inhalation:

Remove victim to fresh air. Give oxygen if breathing becomes difficult. Should breathing stop, give artificial respiration. Get medical aid if cough or other symptoms appear. Risk of pulmonary oedema.

4.2 After Swallowing:

Keep victim warm and calm. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Consult a doctor immediately.

4.3 After Contact with Eyes:

Immediately flush eyes with copious amounts of water for at least 15 minutes. Consult a doctor immediately.

4.4 After Contact with Skin:

Wash contaminated areas with large volumes of soap and water for at least 15 minutes as contaminated clothing is removed. Get medical attention if area remains irritated. Do not wear contaminated clothing until after it has been properly cleaned.

5. Fire Fighting Measures

5.1 Suitable Extinguishing Media:

Water spray, CO₂ or dry chemical powder. Large fires should be confronted with appropriate foam.

5.2 Fire Fighting Protective Measures:

Wear self-contained breathing apparatus MSHA/NIOSH (approved or equivalent), and protective garments. If possible, have this product removed from the fire scene.

6. Accidental Release Measures

6.1 Personal Precautions:

Wear self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent), chemical safety goggles, rubber boots, and heavy rubber gloves.

6.2 Environmental Precautions:

Do not allow to enter the surface or ground water. Do not allow to enter sewers.

6.3 Clean-up Measures:

Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions.

7. Handling and Storage

7.1 Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

7.2 Storage:

Store tightly closed at Room Temperature. Store away from acids and oxidizers. Provide solvent resistant floor. Protect from sun. Protect from warming up/overheating.

8. Exposure Controls/ Personal Protection

Wear appropriate NIOSH / MSHA-Approved respirator, chemical resistant gloves, chemical safety goggles. Safety shower and eye both. Mechanical exhaust required. Keep tightly closed. Wash thoroughly after handling. Do not get in contact with eyes, skin or on clothing. Do not inhale dust, fumes.

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

Physical states / form: liquid
Color: colorless
Odor: characteristic
Boiling point: 100°C
Flashpoint: Not available
Vapor pressure: Negligible
Oxidising properties : No.
Explosion hazard : No.
Explosion limits: None
Vapour pressure : Not available
Density (g/ml) : ~ 1.1
Solubility (in Water): miscible
Soluble in: most organic solvents.

10. Stability and Reactivity

10.1 Stability

Conditions to avoid: Avoid excess heat, flame, pressure, light and incompatible materials

10.2 Reactivity

Substances to avoid: Contact with acids liberates irritant gases. Reacts with acids, alkali and oxidizers.

Hazardous, combustion or decomposition products: No dangerous decomposition products when properly handled. Thermal decomposition: thiocyanate.

Hazardous Polymerization: Has not been reported.

11. Toxicological Information

11.1 Acute Effects:

Inhalation, LC50 rat, (mg/l/4h): N/A

Ingestion, LD50 rat, (mg/kg): N/A

Skin - contact, LD50 rat, (mg/kg): N/A

Irritation (to skin / eye): Mildly irritating – not to be labeled.
Sensitization: Allergic reaction and sensitization are possible.

Chronic effects: N/A

11.2 Further Toxicological Information

The product should be handled with the normal caution accorded to chemical handling.
Additional harmful properties cannot be ruled out.

12. Ecological Information

Harmful to aquatic organisms

May cause long-term adverse effects in the aquatic environment

13. Disposal Considerations

13.1 Product Disposal:

Recommendation : R 2 / D 10 Waste - Code - No. : 07 06 99

In addition comply with the regional authorities.

13.2 Packaging Disposal:

Unclean packaging should be disposed of according to official regulations.

14. Transport Information

Transportation by Road or Railway according to ADR and RID

Remarks: No dangerous goods according to ADR/IATA-DGR

15. Regulatory Information

15.1 Labelling According to EU Guidelines

Classification required by EEC: Yes. Applicable Exemptions: No.

Hazard Identification: Harmful

R-Phrases :

R 20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

R 32 - Contact with acids liberates very toxic gas.

R 52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-Phrases :

S 2: Keep out of reach of children.

S 13: Keep away from food, drink and animal feeding stuffs.

S 36 / 37: Wear suitable protective clothing and gloves.

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 contact with the above product. The information supplied in this MSDS shall not establish a legally valid contractual relationship.



MATERIAL SAFETY DATA SHEET

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BIO-52044, 250 Reactions

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Tel: +49 (0) 761 19240.

2. Composition/ Information on Ingredients

2.1 Chemical Characterization:

Trade Name: Wash Buffer AR

Chemical Characterization: Aqueous solution of thiocyanate

Dangerous component:

Guanidium thiocyanate

CAS #	EEC #	R phrases	Symbol
593-84-0	209-812-1	20/21/22-32-52/53	Xn

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For Materials: Materials should be tested for resistance.

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Remove victim to fresh air. Give oxygen if breathing becomes difficult. Should breathing stop, give artificial respiration. Get medical aid if cough or other symptoms appear. Risk of pulmonary oedema.

4.2 After Swallowing:

Keep victim warm and calm. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Consult a doctor immediately.

4.3 After Contact with Eyes:

Immediately flush eyes with copious amounts of water for at least 15 minutes. Consult a doctor immediately.

4.4 After Contact with Skin:

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5.1 Suitable Extinguishing Media:

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Wear self-contained breathing apparatus MSHA/NIOSH (approved or equivalent), and protective garments. If possible, have this product removed from the fire scene.

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6.1 Personal Precautions:

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6.2 Environmental Precautions:

Do not allow to enter the surface or ground water. Do not allow to enter sewers.

6.3 Clean-up Measures:

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7.1 Handling:

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Wear appropriate NIOSH / MSHA-Approved respirator, chemical resistant gloves, chemical safety goggles. Safety shower and eye both. Mechanical exhaust required. Keep tightly closed. Wash thoroughly after handling. Do not get in contact with eyes, skin or on clothing. Do not inhale dust, fumes.

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

Physical states / form: liquid
Color: colorless
Odor: characteristic
Boiling point: 100°C
Flashpoint: Not available
Vapor pressure: Negligible
Oxidising properties : No.
Explosion hazard : No.
Explosion limits: None
Vapour pressure : Not available
Density (g/ml) : ~ 1.1
Solubility (in Water): miscible
Soluble in: most organic solvents.

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Ingestion, LD50 rat, (mg/kg): N/A

Skin - contact, LD50 rat, (mg/kg): N/A

Irritation (to skin / eye): Mildly irritating – not to be labeled.
Sensitization: Allergic reaction and sensitization are possible.

Chronic effects: N/A

11.2 Further Toxicological Information

The product should be handled with the normal caution accorded to chemical handling.
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Harmful to aquatic organisms
May cause long-term adverse effects in the aquatic environment

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13.1 Product Disposal:

Recommendation : R 2 / D 10 Waste - Code - No. : 07 06 99
In addition comply with the regional authorities.

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Remarks: No dangerous goods according to ADR/IATA-DGR

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Hazard Identification: Harmful

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Date: 17/03/03

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Trade Name: ISOLATE Genomic DNA Mini Kit

Catalogue Number: BIO-52031, 10 Reactions
BIO-52032, 50 Reactions
BIO-52033, 250 Reactions

1.2. Company Details:

Manufacturer/ Supplier: Bioline
16 The Edge Business Centre
Humber Road
London
NW2 6EW
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79106 Freiburg
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Tel: +49 (0) 761 19240.

2. Composition/ Information on Ingredients

2.1 Chemical Characterization:

Trade Name: Wash Buffer BR

Declaration:

In reference to the directions on hazardous materials the product does not contain any dangerous components which have to be declared and in concentrations not to be considered respectively. The solution does not contain more than 1 % of a hazardous component and not more than 0,1 % of a carcinogenic component. Therefore we do not supply a Material Safety Data Sheet.

Nevertheless, we recommend to wear protective clothing (safety glasses, laboratory coats, protective gloves) during contact with our products. We assume no liability for damage resulting from handling or contact with these products.

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BIO-52032, 50 Reactions
BIO-52033, 250 Reactions

1.2. Company Details:

Manufacturer/ Supplier: Bioline
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79106 Freiburg
GERMANY
Tel: +49 (0) 761 19240.

2. Composition/ Information on Ingredients

2.1 Chemical Characterization:

Trade Name: RNase-free water

Declaration:

In reference to the directions on hazardous materials the product does not contain any dangerous components which have to be declared and in concentrations not to be considered respectively. The solution does not contain more than 1 % of a hazardous component and not more than 0,1 % of a carcinogenic component. Therefore we do not supply a Material Safety Data Sheet.

Nevertheless, we recommend to wear protective clothing (safety glasses, laboratory coats, protective gloves) during contact with our products. We assume no liability for damage resulting from handling or contact with these products.