

Material Safety Data Sheet

According to 1907/2006/EC, Article 31

Version: 1, Date: 17.10.2013

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

Commercial Product Name and ID-No.:

Buffer RX of Total RNA Miniprep Kit 250 (mi-RNATO250), 1 tube

Intended use: liquid
Company: metabion international AG
Lena-Christ-Str. 44/I
82152 Planegg - Martinsried
Telephone: +49-89-899363 0
Telefax: +49-89-899363 11
e-mail: info@metabion.com

Centre for detoxification:

2. CHEMICAL CHARACTERISATION / INFORMATION ON CONSTITUENTS

Mixture of substances listed below with nonhazardous additions.

Dangerous components:

guanidine thiocyanate

CAS: 593-84-0

EINECS: 209-812-1

Xn; R 20/21/22-32

25-50%

Formular: C₂H₆N₄S

MW: 118.16 g/mol

3. HAZARDS IDENTIFICATION

Hazard description:

Xn Harmful

Information concerning particular hazards for human and environment:

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

R 32 Contact with acids liberates very toxic gas.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4. FIRST AID MEASURES

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Call for a doctor immediately.

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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Fire fighting procedures: Use material suitable and appropriate to surrounding fire conditions

Protective equipment: Do not inhale explosion gases or combustion gases.

6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions: Ensure adequate ventilation.

Measures for environmental protection: Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

7. HANDLING AND STORAGE

Handling:

Information for safe handling: Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection: No special measures required.

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Do not store together with acids.

Further information about storage conditions: Keep receptacle tightly sealed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical facilities: No further requirements, see item 7.

Ingredients with limit values that require monitoring in the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Personal protective equipment: The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: Local exhaust is usually sufficient. A dust mask is recommended when a possibility of dust inhalation exists.

Protection of hands: Impermeable gloves

Eye protection: Laboratory safety glasses

9. PHYSICAL AND CHEMICAL PROPERTIES

Form and color: Fluid and Colourless

Odor: Characteristic

Melting point / range: Undetermined

Boiling point / range: Undetermined

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Flash point: Not available
Self-igniting: Not self-igniting
Danger of explosion: No explosion hazard
Solubility in water: soluble
pH: 7.0 (at 20°C)

10. STABILITY AND REACTIVITY

Thermal decomposition/condition to be avoided: No decomposition if used according to specifications.
Dangerous reactions: Reacts with acids, alkalis and oxidizing agents
Dangerous decomposition: Danger of forming toxic pyrolysis products.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Primary irritant effect:

On the skin: Irritant to skin and mucous membranes.

On the eye: Strong irritant with the danger of severe eye injury.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Harmful

12. ECOLOGICAL INFORMATION

General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.

13. DISPOSAL CONSIDERATIONS

Product:

Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Observe all federal, state and local environmental regulations.

Unclean packaging:

Recommendation: Dispose of in compliance with official regulations.

Recommended cleaning agents: Water, if necessary together with cleansing agents.

Waste disposal: Dispose of waste according to the local legislation.

14. TRANSPORT INFORMATION

Land transport ADR/RID (cross-border)

ADR/RID class: Not a dangerous substance as defined in the regulations.

Maritime transport IMDG

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IMDG class: Not a dangerous substance as defined in the regulations.

Maritime pollutant: No

Air transport ICAO-TI and IATA-DGR

ICAO/IATA class: Not a dangerous substance as defined in the regulations.

15. REGULATORY INFORMATION

Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:

Xn Harmful

Hazard-determining components of labelling:

guanidine thiocyanate

Risk phrases:

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

32 Contact with acids liberates very toxic gas.

Safety phrases:

13 Keep away from food, drink and animal feedingstuffs.

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

36 Wear suitable protective clothing.

46 If swallowed, seek medical advice immediately and show this container or label.

National regulations:

Waterhazard class: **Water hazard class 2** (Self-assessment): hazardous for water.

16. OTHER INFORMATION

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