

Material Safety Data Sheet



INDEX PAGE

Company GeneAll Biotechnology.
Technical Phone 82-2-407-0096
Fax 82-2-407-0779
E-mail Address geneall@geneall.com

The following MSDS included following products;

Cat. No	Product description
312-150	Ribospin vRD Plus [50prep]
322-150	Ribospin vRD II [50prep]
302-150	Ribospin vRD [50prep]



1. PRODUCT IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE

Trade name
 Buffer BL
 Buffer RB1
 Buffer BW
 Buffer TW

2. COMPOSITION/DATA ON COMPONENTS

Chemical characterization
Description
Components
After swallowing

Liquid (Mixtures of the substances listed below with nonhazardous additions)
 Guanidinium chloride (50-01-1) 25-50%
 Immediately call a doctor.

5. FIRE FIGHTING MEASURES

Suitable extinguishing agents
Protective equipment

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
 Mount respiratory protective device

6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions
Measures for environmental protection
Measures for cleaning/collecting

Ensure adequate ventilation
 Do not allow to enter sewers/surface or ground water.
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 Dispose contaminated material as waste according to item 13.

7. HANDLING AND STORAGE

Handling
 Information for safe handling
 Information about protection against explosions and fires
Storage
 Requirements to be met by storerooms and receptacles
 Information about storage in one common storage facility
 Further information about storage conditions

Keep receptacles tightly sealed.
 No special measures required.
 No special requirements.
 Not required.
 Keep receptacle tightly closed.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Additional information about design of technical systems
Personal protective equipment
 General protective and hygienic measures
 Breathing equipment
 Protection of hands

No further data; see item 7.
 Keep away from foodstuffs, beverages and feed
 Immediately remove all soiled and contaminated clothing.
 Wash hands before breaks and at the end of work.
 Avoid contact with the eyes and skin.
 Not required.
 Protective gloves



Material of gloves	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Eye protection	Tightly sealed goggles

9. PHYSICAL AND CHEMICAL PROPERTIES

General informations

Form	Fluid
Color	Colorless
Odor	Characteristic

Change in condition

Melting point/Melting range	Undetermined
Boiling point/Boiling range	Undetermined

Flash point

Not applicable

Auto igniting

Product is not selfigniting.

Danger of explosion

Product does not present an explosion hazard.

Density at 20°C (68°F)

1.17 g/cm³

Solubility in / Miscibility with Water

Fully miscible

10. STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided

No decomposition if used according to specifications.

Dangerous reactions

Reacts with acids, alkali and oxidizing agents.

Dangerous products of decomposition

Danger of toxic pyrolysis products.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Primary irritant effect

on the skin

Irritant to skin and mucous membranes.

on the eye

Irritating effect.

Sensitization

No sensitizing effects known.

Additional toxicological information

The product shows the following dangers according to internally approved calculation methods for preparations :

- Harmful
- Irritant

12. ECOLOGICAL INFORMATION

General notes

Water hazard class 1 (Self-assessment) slightly hazard for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. DISPOSAL CONSIDERATIONS

Product

Recommendation

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

Uncleaned packagings

Recommendation

Disposal must be made according to official regulations.

Recommended cleansing agent

Water, if necessary with cleansing agents

14. TRANSPORT INFORMATION

DOT regulations Hazard class

-

Land transport ADR/RID

-

(cross-border) ADR/RID class



Maritime transport IMDG

IMDG class -
Marine pollutant No

Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class -
Not dangerous goods

15. REGULATIONS

Sara

Section 355
(Extremely hazardous substances) None of the ingredient is listed.

Section 313
(Specific toxicchemical listings) None of the ingredient is listed.

TSCA
(Toxic Substances Control Act) 50-01-1 guanidium chloride

Proposition 65

Chemicals known to cause cancer None of the ingredient is listed.

Chemicals known to cause reproductive toxicity None of the ingredient is listed.

Product related hazard informations

The product is not subjected to identification regulations according to directives on hazardous materials.

Hazard symbols

Harmful

Hazard-determining components of labelling

Guanidium chloride

Risk phrases

Harmful if swallowed

Irritating to eyes and skin.

Keep away from food, drink and animal feedingstuffs.

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

Safety phrases

Wear suitable protective clothing.

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

National regulations

Water hazard class Water hazard class 1 (Self-assessment) slightly hazardous for water

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

End of Safety Data Sheet