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Company GeneAll Biotechnology.

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# The following MSDS included following products;

Cat. No	Product describtion
114-150	Exgene Soil SV

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

#### 1.1 Product identifier

#### 1. PRODUCT IDENTIFICATION

Buffer AE Buffer EW1 Buffer NW Buffer RL
Buffer AL Buffer EW2 Buffer P1 Buffer RNW
Buffer AW Buffer FL Buffer P2 Buffer RPL
Buffer BD Buffer G3 Buffer P3 Buffer S1
Buffer BL Buffer GB Buffer PB Buffer S2
Buffer BW Buffer GB N Buffer PD Buffer S3
Buffer CL Buffer GP Buffer PL Buffer SL
Buffer CW Buffer GW1 Buffer PP Buffer SW1

Product name

Buffer CW Buffer GW1 Buffer PP Buffer SW

Buffer DRB Buffer LYS Buffer PW Buffer TB Buffer EB Buffer ML Buffer RB1 Buffer TL Buffer EF Buffer MS Buffer RBW Buffer TW Buffer EG Buffer NR Buffer RE Buffer VL Buffer ER Buffer NVL Buffer REL Buffer YL

Buffer DP Buffer FPL Buffer FPB Buffer BW Buffer TW Buffer AE

Buffer RAL Buffer RW Buffer RSW Buffer DRB

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance or mixture Laboratory chemicals

#### 2. HAZARDOUS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

### Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Acute oral toxicity

Skin corrosion/irritation

Serious eye damage/eye irritation

Specific target organ systemic toxicity
(single exposure)

Category 3

Category 3

### 2.2 Label elements

Hazard pictograms

#### Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



Signal word Warning

Hazard statements H302 Harmful if swallowed.

H315 Cause skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Precautionary statements

Prevention P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash skin/hands thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

 ${\tt P280~Wear~protective~gloves/protective~clothing/eye~protection/face~protection}.$ 

Respose P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a positioncomfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.Remove contact lenses, if present and

easy to do. Continue rinsing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

P332+P313 IF skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

Storage P403+P233 Store in a well-ventilated place. Keep container tightly closed.



P405 Store locked up.

Disposal P501 Dispose of contents/container in accordance with all applicable environmental lawsand regulations.

#### 3. COMPOSITION/INFORMATION INGREDIENTS

Substance / Mixture Mixture

Substance name CAS. NO. / Concentration (%)

Guanidium chloride 50-01-1 / 25-50%

Sodium dodecyl sulphate 151-21-3 / 1-8%

4. FIRST AID MEASURES

Symptoms of poisoning may even occur after several hours;

General information therefore medical observation for at least 48 hours after the

accident

Supply fresh air. Keep patient warm. Consult to a doctor in case After inhalation

of complaints.

After skin contact Immediately wash with water and soap and rinse thoroughly. Rinse opened eye for several minutes under running water.

After eye contact Consult to a doctor After swallowing Immediately call a doctor.

5. FIRE FIGHTING MEASURES

CO2, extinguishing powder or water spray. Fight larger fires with Suitable extinguishing agents

water spray or alcohol resistant foam. Protective equipment Mount respiratory protective device

6. ACCIDENTAL RELEASE MEASURES

Person-related safety

Ensure adequate ventilation precautions

Measures for environmental

Do not allow to enter sewers/surface or ground water. protection

Absorb with liquid-binding material (sand, diatomite, acid binders,

Measures for cleaning/collecting universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

7. HANDLING AND STORAGE

Handling

Information for safe handling Keep receptacles tightly sealed. Information about protection No special measures required. against explosions and fires

Storage

Requirements to be met by storerooms and receptacles Information about storage in one

common storage facility

Further information about

Keep receptacle tightly closed. storage conditions

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Additional information about No further data; see item 7.

design of technical systems Personal protective equipment

Keep away from foodstuffs, beverages and feed

Immediately remove all soiled and contaminated clothing. General protective and hygienic

No special requirements.

Not required.

measures

Wash hands before breaks and at the end of work.

Avoid contact with the eves and skin.

Breathing equipment Not required. Protection of hands Protective gloves

The selection of the suitable gloves does not only depend on the

Material of gloves 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

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

Flash point 170°C

**Auto igniting** Product is not selfigniting.

Danger of explosion Product does not present an explosion hazard.

Density at 20°C (68°F)  $1.17 \text{ g/cm}^{3}$ Solubility in / Miscibility with Fully miscible

10. STABILITY AND REACTIVITY

Thermal decompositon / No decomposition if used according to specifications. conditions to be avoided

**Dangerous reactions** Reacts with acids, alkali and oxidizing agents.

Dangerous products of

Danger of toxic pyrolysis products. decomposition

#### 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Primary irritant effect

on the skin Irritant to skin and mucous membranes.

on the eye Irritating effect.

No sensitizing effects known. Sensitization

The product shows the following dangers according to internally

Additional toxicological approved calculation methods for preparations:

information - Harmful - Irritant

12. ECOLOGICAL INFORMATION

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

General notes Do not allow undiluted product or large quantities of it to reach

ground water, water course or sewage system.

#### 13. DISPOSAL CONSIDERATIONS

**Product** 

Must not be disposed of together with household garbage. Do Recommendation

not allow product to reach sewage system.

Uncleaned packagings

Disposal must be made according to official regulations. Recommendation

Recommended cleansing agent Water, if necessary with cleansing agents

14. TRANSPORT INFORMATION

Land transport ADR/RID Not regulated as dangerous goods

(cross-border) ADR/RID class

Land transport DOT and TDG class Not regulated as dangerous goods

Maritime transport IMDG/IMO

IMDG/IMO class Not regulated as dangerous goods

Marine pollutant

Air transport ICAO-TI and

IATA-DGR

Not regulated as dangerous goods

ICAO/IATA Class Not regulated as dangerous goods

#### 15. REGULATIONS

Sara

Section 355

(Extremely hazardous substances)

None of the ingredient is listed.

Section 313

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

**TSCA** 

50-01-1 guanidium chloride

(Toxic Substances Control Act) **Proposition 65** 

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

Product related hazard The product is not subjected to identification regulations

informations according to directives on hazardous materials.



Hazard symbols Harmful

**Hazard-determining** components of labelling

Guanidium chloride

Harmful if swallowed Risk phrases

Irritating to eyes and skin. Keep away from food, drink and animal feeding stuffs. In case of contact with eyes, rinse immediately with plenty of

water and seek medical advice.

Wear suitable protective clothing.

If swallowed, seek medical advice immediately and show this

container or label.

National regulations Water hazard class

Safety phrases

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

water

# 16. OTHER INFORMATION

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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** 

GeneAll Biotechnology. Co. Ltd