

Product Name: TritEx® Viral RNA Extraction Kit

# SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier:

Substance name: Washing Buffer 1 (TWE1)

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

Recommended restrictions on use: For professional users only.

1.2 Details of the supplier of the safety data sheet

Manufacturer / Supplier: TritaGene Biotech Co.

Street address / P.O. Box: Pajoohesh Blvd., Hakim (Hamedani) Hwy.

Country ID / Postcode / Place: Iran

Telephone number: +98 (21) 44 18 01 81-2 Telefax: +98 (21) 44 18 57 14

E-Mail: tritagene@gmail.com National contact: TritaGene Biotech Co.

**1.3 Emergency Telephone Number** +98 (21) 44 18 01 82

Opening Hours: 08-17 Sat. to Wed., Only available during work hours.

# **SECTION 2: Hazards Identification**

**2.1 Classification of the substance or mixture**Skin irritation: Category 2

**2.1.1 classification according to regulation (EC) No**Eye irritation: Category 2A

**1272/2008 (CLP)**Skin sensitization: Category 1
Acute toxicity (Oral): Category 4

Acute toxicity (Inhalation): Category 4

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

[CLP/GHS]

Hazard pictograms:

Signal word: Warning

Hazard statements: H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Precautionary statements: P280

Wear protective gloves/protective clothing/eye

protection/face protection.

**2.3 Other hazards** Risk of blindness after swallowing the product

# **SECTION 3: Composition/Information on Ingredients**





3.1 Substances

Substances name: No data available **INDEX No.:** No data available No data available EC NO.: **REACH No.:** No data available CAS No.: No data available Purity: No data available Synonyms: No data available Stabilizers: No data available No data available Hazard impurities:

3.2 Mixtures

Description of the mixture: Mixture Buffer solution containing aqueous solution of guanidium

hydrocloride, Tris and distilled water

Hazardous ingredients guanidine hydrochloride (CAS-No. 50-01-01)

| Name of substance    | Identifier       | Pictograms     |
|----------------------|------------------|----------------|
| Guanidinium chloride | CAS No.: 50-01-1 | !              |
| Tris base            | CAS No.: 77-86-1 | Not classified |

#### **SECTION 4: First Aid Measures**

## 4.1 Description of first aid measures

**General advice:** Move out of dangerous area. Show this material safety data

sheet to the doctor in attendance.

If unconscious place in recovery position and seek medical

advice. If symptoms persist, call a physician.

**In case of skin contact:**Wash off immediately with soap and plenty of water while

removing all contaminated clothes and shoes. If skin

irritation persists, call a physician.

**In case of eye contact:** Immediately flush eye(s) with plenty of water. Remove

contact lenses. Protect unharmed eye. Rinse thoroughly with

plenty of water for at least 15 minutes and consult a

physician.

If accidentally swallowed obtain immediate medical

attention. Rinse mouth with water. Never give anything by

mouth to an unconscious person.





4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Causes skin irritation.

Effects: May cause an allergic skin reaction.

Causes serious eye irritation.

4.3 Indication of any immediate medical attention and

special treatment needed

Notes for doctor:

Special treatment:

No information available.

No information available.

**SECTION 5: Fire-Fighting Measures** 

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Unsuitable extinguishing: High volume water jet

5.2 Special hazards arising from the substance or

mixture

Specific hazards during firefighting: Exposure to decomposition products may be a hazard to

health.

Hazardous combustion products: Carbon oxides, Nitrogen oxides (NOx)

5.3 Advice for fire-fighters

Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if

necessary.

Further information: Prevent fire extinguishing water from contaminating surface

water or the ground water system.

**SECTION 6: Accidental Release Measures** 

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel: Use personal protective equipment.

Ensure adequate ventilation.

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

6.1.2 For emergency responders See section 8

**6.2 Environmental precautions** Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

6.3 Methods and materials for containment and

cleaning up

6.3.1 For containment: Keep in suitable, closed containers for disposal.

6.3.2 For cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

6.3.3 Other information:

**SECTION 7: Handling and Storage** 





## 7.1 Precautions for safe handling

Advice on safe handling:

Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

# 7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a dry and well-ventilated

place.

## **SECTION 8: Exposure controls/personal protection**

8.1 Control parameters

Ingredients with workplace control parameters

## 8.2 Personal protection equipment:

Eye and face protection:

Hand and Skin protection:

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses. Ensure that eyewash stations and

safety showers are close to the workstation location.

Protective gloves complying with EN 374 and Footwear protecting against chemicals

Respiratory protection: In the case of vapor formation use a respirator with an

approved filter.

## **SECTION 9: Physical and Chemical Properties**

# 9.1 Information on basic physical and chemical properties:

a) Appearance: Liquid b) Odor: Odorless

c) Odor threshold:

No data available

d) pH: 6.5-7.5

No data available e) Melting point / freezing point: f) Initial boiling point and boiling range: No data available g) Flash point: No data available No data available h) Evaporation rate: j) Upper / lower flammability or explosive limits No data available k) Vapor pressure No data available I) Vapor density No data available m) Relative density No data available n) Solubility(ies) No data available





o) Partition coefficient: n-octane/water

p) Auto-ignition temperature

q) Decomposition temperature

r) Viscosity

s) Explosive properties

t) oxidizing properties

No data available No data available

#### 9.2 Other information

# **SECTION 10: Stability and Reactivity**

**10.1 Reactivity:** No decomposition if stored and applied as advised.

**10.2 Chemical stability:**The product is chemically stable under standard ambient

conditions (room temperature).

**10.3 Possibility of hazardous reactions:** Violent reactions possible with: Strong oxidizing agents

Hazardous decomposition products formed under fire

conditions.

Keep away from oxidizing agents, and acidic or alkaline

products.

**10.4 Conditions to avoid:**No data available

**10.5 Incompatible materials:**No data available

**10.6 Hazardous decomposition products:**No data available

# **SECTION 11: Toxicological Information**

## 11.1 Information on toxicological effects

Acute toxicity No data available

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

Respiratory or skin sensitization No data available

Germ cell mutagenicity

No data available





**Carcinogenicity**No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

# **SECTION 12: Ecological Information**

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

**12.3 Bio accumulative potential**No data available

**12.4 Mobility in soil**No data available

12.5 Results of PBT and vPvB assessment No data available

12.6 Other adverse effects No data available

# **SECTION 13: Disposal Considerations**

**13.1 Waste treatment methods** Send to a licensed waste management company. Dispose of

**Disposal methods Waste from residues:** as hazardous waste in compliance with local and national

regulations.

Contaminated packaging: Dispose of as unused product. Do not re-use empty

containers.

## **SECTION 14: Transport Information**

**14.1. UNRTDG** Not regulated as a dangerous good

**14.2. IATA-DGR** Not regulated as a dangerous good

**14.3. IMDG-Code** Not regulated as a dangerous good

14.4. Transport in bulk according to Annex II of

MARPOL 73/78 and the IBC Code

No data available

**14.5. Domestic regulation**Not regulated as a dangerous good





14.6. Special precautions for user:

Remarks:

No data available

Not classified as dangerous in the meaning of transport

regulations.

# **SECTION 15: Regulatory Information**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- COUNCIL DIRECTIVE on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances (67/548/EEC)
- DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL
- German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung -GefStoffV)
- TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products

## 15.2 Chemical safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## **SECTION 16: Other Information**

#### Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

