According to EC directive 2001/58/EC



BIOTECH CORP.

## **Tissue Total RNA Kit**

Processing date 05.04.2017

Version 1 Printing date 05.04.2017

## 1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION

Commercial Product Name: Tissue Total RNA Kit Supplier: Favorgen Biotech Corp. Address: Ping - Tung Agricultural Biotechnology Park No.37, Nong-ke Rd., Ping-Tung 908, Taiwan Phone Number: 886-8-762-1829 Emergency telephone number: 886-8-762-1829

#### 2. CHEMICAL CHARACTERISATION

FARB Buffer: 1 piece(s) 25-50 % Guanidinium thiocyanate; CAS-No. 583-84-0

Wash 1 Buffer: 1 piece(s) 0.1-5 % Edetic acid disodium salt dihydrate (EDTA); CAS-No. 6381-92-6 0.5-2 % Sodium dodecylsulfate; CAS-No. 151-21-3

Wash 2 Buffer: 1 piece(s) 0.5-2 % Sodium dodecylsulfate; CAS-No. 151-21-3

RNase-Free Water: 1 piece(s) Water, contains no hazardous substances in concentrations to be declared

#### 3. HAZARDS IDENTIFICATION

3.1 Classification of the substance	or mixture
Classification according to Reg	ulation (EC) No 1272/2008
Acute toxicity, Oral (Category 4	), H302
Acute toxicity, Inhalation (Categ	gory 4), H332
Acute toxicity, Dermal (Categor	y 4), H312
Chronic aquatic toxicity (Catego	ory 3), H412
For the full text of the H-Statem	ents mentioned in this Section, see Section 16.
3.2 Label elements	
Labelling according Regulation	(EC) No 1272/2008
Pictogram	$\Diamond$
Signal word	Warning
Hazard statement(s)	
H302 + H312 + H332	Harmful if swallowed, in contact with skin or if inhaled.
H412	Harmful to aquatic life with long lasting effects.

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P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280	Wear protective gloves/ protective clothing.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/doctor if you fee unwell. Rinse mouth.
Supplemental Hazard inform	mation (EU)
EUH032	Contact with acids liberates very toxic gas.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 4. FIRST AID MEASURES

Skin contact: Wash skin with water thoroughly.

Eye contact: Promptly wash eyes with water for at least 15 minutes, if necessary seek medical advice. Ingestion: Obtain medical attention.

#### 5. FIRE-FIGHTING MEASURES

Extinguishing media: No restriction.

Decomposition: Dangerous decomposition is not anticipated.

#### 6. ACCIDENTAL RELEASE MEASURES

Actions to be taken on spillage:

Sweep up spilled solids carefully. Dilute spilled liquids with plenty of water and adsorb.

Absorbent material: No restriction.

Actions to be taken to limit

Damage: Special measures to limit damage are not necessary.

## 7. HANDLING AND STORAGE

Handling: Liquid is not inflammable. Liquid is not combustible. Open and handle vessels carefully. Storage: Store at room temperature.

Do not store together with: No restriction.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection: No personal respiratory protective equipment normally required. Eye protection: Safety glasses Hand protection: One-way gloves Hygiene measures: Wash hands before breaks and at the end of workday.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

RB Buffer Form: liquid Miscibility with water: immiscible pH : 6.0 Boiling Point: 110°C. Melting Point: Decomposes

RT Buffer Form: liquid Miscibility with water: immiscible pH : 7.5 Boiling Point: 110°C. Melting Point: Decomposes

W1 Buffer Form: liquid Miscibility with water: immiscible pH : 6.0 Boiling Point: 110°C. Melting Point: Decomposes

Wash Buffer Form: liquid Miscibility with water: immiscible pH : 7.5 Boiling Point: 110°C. Melting Point: Decomposes

Elution Buffer Form: liquid Miscibility with water: immiscible pH: 8.5

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Boiling Point: 110°C.

Melting Point: Decomposes

## **10. STABILITY AND REACTIVITY**

Hazardous reactions: none under normal use Hazardous decomposition products: none

## **11. TOXICOLOGICAL INFORMATION**

### RB Buffer

*Guanidinium thiocyante* Toxicity (others): LD50 intraperitoneal mouse 300 mg/kg

#### **RT Buffer**

Sodium dodecylsulfate Oral toxicity: LD50 rat 1.288 mg/kg Edetic acid disodium salt dihydrate (EDTA) Oral toxicity: LD50 rat 2.000 mg/kg Toxicity (others): LD50 oral rabbit 2.300 mg/kg LD50 (intravenous, mouse) 56 mg/kg

#### W1 Buffer

## Guanidine-hydrochloride

Oral toxicity: LD50 rat 475 mg/kg Toxicity (inhalation): LD50 rat 5.3 mg/l (4 h) Toxicity (others): LD50 intraperitoneal mouse 500 mg/kg

## 11. ECOLOGICAL INFORMATION

Water hazard class: 1 slightly hazardous to water and ground

## 12. DISPOSAL CONSIDERATIONS

Waste disposal route: Used reagent can be disposed of in the waste water in accordance with local regulations.

Disposal of empty packaging: Dispose of empty packs by local recycling or waste disposal routes if necessary, clean them beforehand.

#### **13. TRANSPORT INFORMATION**

DOT regulations

#### Hazard class: None

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Land transport ADR/RID (cross-border) ADR/RID class: *None* 

Maritime transport IMDG IMDG Class: *None* Marine pollutant: *None* 

Air transport ICAO-TI and IATA-DGR ICAO/IATA Class: NOT REGULATED AS A DANGEROUS GOOD

#### 14. REGULATIONS

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Section 355 (extremely hazardous substances): None of the ingredients is listed. Section 313 (Specific toxic chemical listings): None of the ingredients is listed. TSCA (Toxic Substances Control Act): All ingredients are listed. **Proposition 65** 

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

Hazard symbol: Harmful

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

Product related hazard information:

The product has been classified and in accordance with directives on hazardous materials.

National regulations:

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

#### **15. OTHER INFORMATION**

This information is based on our present knowledge.