SAFETY DATA SHEET

Version 5.1 Revision Date 04/02/2015 Print Date 08/17/2017

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : GenElute™ Mammalian Total RNA Miniprep Kit

Product Number : RTN70 Brand : Sigma

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

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich

3050 Spruce Street

SAINT LOUIS MO 63103

USA

Telephone : +1 800-325-5832 Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

This is a summary MSDS for a kit, for the full MSDS for each of the components listed in section 16 please visit our website.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 4), H227

Acute toxicity, Oral (Category 3), H301

Acute toxicity, Inhalation (Category 3), H331

Acute toxicity, Dermal (Category 2), H310

Skin corrosion (Category 1C), H314

Serious eye damage (Category 1), H318

Skin sensitisation (Category 1), H317

Specific target organ toxicity - repeated exposure, Oral (Category 2), Liver, Heart, H373

Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)

H227 Combustible liquid.

H301 + H331 Toxic if swallowed or if inhaled H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction. H373 May cause damage to organs (Liver, Heart) through prolonged or repeated exposure if swallowed. H410 Very toxic to aquatic life with long lasting effects. Precautionary statement(s) P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P262 Do not get in eyes, on skin, or on clothing. Wash skin thoroughly after handling. P264 P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. P272 Avoid release to the environment. P273 Wear protective gloves/ protective clothing/ eye protection/ face P280 protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor/ P301 + P310 physician. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable 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. P310 Immediately call a POISON CENTER or doctor/physician. Specific measures (see supplemental first aid instructions on this label). P322 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P361 Remove/Take off immediately all contaminated clothing. P363 Wash contaminated clothing before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for P370 + P378 extinction. P391 Collect spillage. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. P403 + P235

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

Store locked up.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Refer to component MSDS

4. FIRST AID MEASURES

P405

P501

Refer to component MSDS

5. FIREFIGHTING MEASURES

Refer to component MSDS

6. ACCIDENTAL RELEASE MEASURES

Refer to component MSDS

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

No data available

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Dispose of contents/ container to an approved waste disposal plant.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Refer to component MSDS

9. PHYSICAL AND CHEMICAL PROPERTIES

Refer to component MSDS

10. STABILITY AND REACTIVITY

Refer to component MSDS

11. TOXICOLOGICAL INFORMATION

Refer to component MSDS

12. ECOLOGICAL INFORMATION

Refer to component MSDS

13. DISPOSAL CONSIDERATIONS

Refer to component MSDS

14. TRANSPORT INFORMATION

DOT (US)

UN number: 3316 Class: 9

Proper shipping name: Chemical kits

Poison Inhalation Hazard: No

IMDG

UN number: 3316 Class: 9

Proper shipping name: CHEMICAL KIT

IATA

UN number: 3316 Class: 9

Proper shipping name: Chemical kit

Packing group: III

Packing group: III

Packing group: III

15. REGULATORY INFORMATION

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

16. OTHER INFORMATION

kit

Kit Components:

Lysis solution for total RNA **SIGMA** L8285 Acute Tox. 4; Skin Corr. 1C; Eye

Chronic 3; H302, H314, H412 **SIGMA** Flam. Liq. 4; Acute Tox. 3; Acute Tox. 2-Mercaptoethanol 2563135

> 2; Skin Irrit. 2; Eye Dam. 1; Skin Sens. 1; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H227, H301 +

EMS-No: F-A, S-P

H331, H310, H315, H317, H318,

Dam. 1; Aquatic Acute 3; Aquatic

H373, H410

SIGMA W3136 Skin Corr. 1C; Eye Dam. 1; H314 wash solution 1

Sigma - RTN70 Page 3 of 4 Wash solution 2 SIGMA W3261
Concentrate for Total RNA
Elution solution SIGMA E8024
DNA Filtration column SIGMA C9346
Nucleic acid binding column SIGMA C9471

HMIS Rating

Health hazard: 4
Chronic Health Hazard: *
Flammability: 0
Physical Hazard 0

NFPA Rating

Health hazard: 3
Fire Hazard: 0
Reactivity Hazard: 0

Further information

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Preparation Information

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

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