

# REPRORNATM TRANSFECTION REAGENT KIT EFFECTIVE DATE: 2015-11-16

# 1 Product and Company Identification

**1.1 Product Name:** ReproRNA™ Transfection Reagent Kit

**1.2 Catalog Number:** 05934

## 1.3 Component Name/Catalog Number:

Product Name	Catalog Number
ReproRNA™ Transfection Reagent	05932
ReproRNA™ Transfection Supplement	05933

**1.4 Product Identifier:** ethyl alcohol >99%

**1.5 Product Use:** Laboratory Chemical

1.6 Manufacturer/Supplier: STEMCELL Technologies

Suite 500-1618 Station Street

Vancouver, British Columbia V6A 1B6 Canada

1.7 In Case of Emergency Call: 1-800-667-0322

#### 2 Hazards Identification

#### 2.1 Classification of the substance or mixture

Flammable liquids, Category 2 Eye irritation, Category 2B

#### 2.2 Label elements

#### **Pictogram**



Signal word Danger

**Hazard statement(s)** 

H225 Highly flammable liquid and vapour.

H320 Causes eye irritation.

# Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No

smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face

protection.

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P303+361+353

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+351+338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P337+313

If eye irritation persists: Get medical advice/ attention.

P370+378

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

No data available

# 3 Composition / Information on Ingredients

#### 3.1 Substances

Other hazards

2.3

Hazardous Components (Chemical Name)	CAS#	Concentration	EC#
ethyl alcohol	64-17-5	>99%	200-578-6

## 4 First Aid Measures

## 4.1 Description of first aid measures

#### 4.1.1 If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### 4.1.2 In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

## 4.1.3 In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

## 4.1.4 If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2.2 and/or in section 11.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

# 5 Fire Fighting Measures

#### 5.1 Extinguishing Media

## 5.1.1 Suitable Extinguishing Media

Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

## 5.1.2 Unsuitable Extinguishing Media

No data available

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# 5.2 Special hazards arising from the substance or mixture

## 5.2.1 Flammable Properties and Hazards

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

#### 5.2.2 Flash Pt

No data available

## 5.2.3 Autoignition Pt

No data available

#### 5.2.4 Explosive Limits

LEL: No data available UEL: No data available

#### 5.2.5 Hazardous Combustion Products

Carbon oxides

#### 5.3 Fire Fighting Instructions

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

#### 6 Accidental Release Measures

# 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

## 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13).

## 7 Handling and Storage

## 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.

For precautions see section 2.2.

## 7.2 Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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## 8 Exposure Controls/Personal Protection

#### 8.1 Exposure limits

Components with workplace control parameters

Component	CAS#	Value	Control parameters	Basis			
ethyl alcohol	64-17-5	TWA	1000 ppm 1800 mg/m <sup>3</sup>	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)			
		TWAEV	1000 ppm 1800 mg/m <sup>3</sup>	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants			
		STEL	1000 ppm	Canada. British Columbia OEL			
		TWA	1000 ppm	USA. ACGIH Threshold Limit Values (TLV)			
	Remarks	Upper Respiratory Tract irritation					
		Confirmed animal carcinogen with unknown relevance to humans					
		TWA	1000 ppm 1900 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants			
		The value	The value in mg/m3 is approximate.				
		TWA	1000 ppm 1900 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits			
		TWA	1000 ppm 1920 mg/m <sup>3</sup>	UK. EH40 WEL – Workplace Exposure Limits			
	t-term exposure limit is listed, a figure three times the buld be used						

#### 8.2 Engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

## 8.3 Personal protective equipment

# 8.3.1 Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### 8.3.2 Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### 8.3.3 Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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## 8.3.4 General hygiene considerations

General industrial hygiene practice.

## 8.3.5 Environmental exposure controls

Do not let product enter drains.

# 9 Physical and Chemical Properties

## 9.1 Information on basic physical and chemical properties

Appearance Liquid

Odour No data available Odour threshold No data available Ha No data available Melting point/freezing point No data available Boiling point/boiling range No data available Flash point No data available No data available Evaporation rate Flammability (solid, gas) No data available Upper/lower flammability or explosive limits No data available Vapour pressure No data available Vapour density No data available Relative density No data available No data available Solubility Partition coefficient: n-octanol/water No data available No data available Auto-ignition temperature Decomposition temperature No data available Viscosity No data available

# 10 Stability and Reactivity

**10.1 Reactivity** No data available

**10.2 Chemical stability** Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions** Vapours may form explosive mixture with air.

**10.4 Conditions to avoid** Heat, flames and sparks. Extremes of

temperature and direct sunlight.

**10.5** Incompatible materials No data available

**10.6** Hazardous decomposition products

Hazardous decomposition products formed

under fire conditions - Carbon oxides

# 11 Toxicological Information

#### 11.1 Acute toxicity

Oral: No data available Inhalation: No data available

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Dermal: No data available
Other: No data available

#### 11.2 Skin corrosion/irritation

No data available

## 11.3 Serious eye damage/eye irritation

Eyes: no data available

## 11.4 Respiratory and/or skin sensitization

No data available

# 11.5 Germ cell mutagenicity

No data available

## 11.6 Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by OSHA.

# 11.7 Reproductive toxicity

No data available

## 11.8 Specific target organ toxicity - single exposure

No data available

#### 11.9 Specific target organ toxicity - repeated exposure

No data available

## 11.10 Aspiration hazard

No data available

## 11.11 Potential health effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

#### 11.12 Signs and symptoms of exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence (Ethanol)

## 11.13 RTECS # No data available

# 12 Ecological Information

12.1 Toxicity
 No data available
12.2 Persistence and degradability
 No data available
 No data available

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# 13 Disposal Considerations

14 Transport Information

#### 13.1 Waste disposal method

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

# 13.2 Contaminated packaging

Dispose of as unused product.

	UN number	ADR/RID IMDG IATA	1170 1170 1170 1170
14.2	UN proper shipping name	DOT ADR/RID IMDG IATA	Ethanol solutions ETHANOL SOLUTION ETHANOL SOLUTION Ethanol solution

14.3	Transport hazard class(es)	DOT	3
		V DD /DID	2

ADK/KID	3
IMDG	3
IATA	3

# 14.4 Packing group DOT II

ADR/RID II IMDG II IATA II

# **14.5 Environmental hazards** DOT Marine pollutant: No

ADR/RID No

IMDG Marine pollutant: No

IATA No

**14.6 Special precautions** No data available

# 15 Regulatory Information

# 15.1 USA

## **SARA 302 Components:**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## **SARA 313 Components:**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## SARA 311/312:

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

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CAS#	Revision Date		
64-17-5	2007-03-01		
CAS#	Revision Date		
64-17-5	2007-03-01		
CAS#	Revision Date		
64-17-5	2007-03-01		
	CAS # 64-17-5  CAS # 64-17-5  CAS #		

# California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### 15.2 EU

This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

#### 15.3 Canada

WHMIS Classification: B2 Flammable liquid

This SDS was prepared in accordance with Hazardous Products Regulations (HPR) and WHMIS 2015.

## 16 Other Information

16.1 Prepared by: Quality Control, STEMCELL Technologies Inc.

16.2 Revision: N/A

**16.3 Notice:** The above information is believed to be correct but does not purport to be all

inclusive and shall be used only as a guide. STEMCELL Technologies Inc. shall not be held liable for any damage resulting from handling or from contact with the product. The information contained in this Safety Data Sheet (SDS) is current as of the Effective Date shown in this document and may be subject to

amendment by STEMCELL Technologies Inc.

16.4 Disclaimer: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT INTENDED FOR

HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.

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