# **SAFETY DATA SHEET**

Version 5.5 Revision Date 03/24/2015 Print Date 04/18/2017

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : RNAlater®

Product Number R0901 Brand Sigma

Product Use For laboratory research purposes.

Supplier Sigma-Aldrich Canada Co. Sigma-Aldrich Corporation Manufactur :

> 2149 Winston Park Drive 3050 Spruce St. er

OAKVILLE ON L6H 6J8 St. Louis, Missouri 63103

**CANADA** 

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Emergency Phone # (For

Preparation Information

both supplier and manufacturer)

+1-703-527-3887 (CHEMTREC)

Product Safety - Americas Region

Sigma-Aldrich Corporation

1-800-521-8956

# 2. HAZARDS IDENTIFICATION

### **Emergency Overview**

### WHMIS Classification

Not Rated

Not a hazardous substance or mixture.

**HMIS Classification** 

Health hazard: 1 Flammability: 0 Physical hazards: 0

**Potential Health Effects** 

Inhalation May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation. Skin

**Eyes** May cause eye irritation. Ingestion May be harmful if swallowed.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS-No.	EC-No.	Index-No.	Concentration
Ammonium sulphate	e		
7783-20-2	231-984-1	-	> 30 - < 60 %
Trisodium citrate			
6132-04-3	200-675-3	-	< 10 %
Sulfuric acid			
7664-93-9	231-639-5	016-020-00-8	< 0.1 %
Water			
7732-18-5	231-791-2	-	>= 30 %

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### 4. FIRST AID MEASURES

### If inhaled

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

### In case of skin contact

Wash off with soap and plenty of water.

### In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

## 5. FIREFIGHTING MEASURES

### Conditions of flammability

Not flammable or combustible.

## Suitable extinguishing media

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

### Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### **Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides. Sodium oxides

## Explosion data - sensitivity to mechanical impact

No data available

## Explosion data - sensitivity to static discharge

No data available

### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Avoid breathing vapours, mist or gas.

# **Environmental precautions**

No special environmental precautions required.

## Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

## Conditions for safe storage

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

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal protective equipment

# **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).

# **Hand 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.

#### Eye protection

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

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# Skin and body protection

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

### Hygiene measures

General industrial hygiene practice.

# Specific engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## **Appearance**

Form liquid

Colour No data available

Safety data

pH No data available

Melting No data available

point/freezing point

Boiling point No data available
Flash point No data available
Ignition temperature No data available
Auto-ignition No data available

temperature

Lower explosion limit
Upper explosion limit
Vapour pressure
Density
Water solubility
No data available

n-octanol/water

Relative vapour

density

No data available

Odour No data available
Odour Threshold No data available
Evaporation rate No data available

# 10. STABILITY AND REACTIVITY

# Chemical stability

Stable under recommended storage conditions.

# Possibility of hazardous reactions

No data available

### Conditions to avoid

No data available

# Materials to avoid

Strong oxidizing agents, Strong bases

### Hazardous decomposition products

Other decomposition products - No data available

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Sodium oxides

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### 11. TOXICOLOGICAL INFORMATION

## **Acute toxicity**

Oral LD50

**Inhalation LC50** 

No data available

**Dermal LD50** 

No data available

Other information on acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

Eyes: No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

## 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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by ACGIH.

# Reproductive toxicity

No data available

# **Teratogenicity**

No data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

No data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available

**Aspiration hazard** 

No data available

## Potential health effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion** May be harmful if swallowed.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation.

### Signs and Symptoms of Exposure

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

# Synergistic effects

No data available

# **Additional Information**

RTECS: Not available

## 12. ECOLOGICAL INFORMATION

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# **Toxicity**

No data available

## Persistence and degradability

No data available

## Bioaccumulative potential

No data available

## Mobility in soil

No data available

## PBT and vPvB assessment

No data available

### Other adverse effects

No data available

### 13. DISPOSAL CONSIDERATIONS

### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

## Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

# DOT (US)

Not dangerous goods

#### **IMDG**

Not dangerous goods

### IATA

Not dangerous goods

### 15. REGULATORY INFORMATION

# **WHMIS Classification**

Not Rated

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

## 16. OTHER INFORMATION

### **Further information**

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