

# SAFETY DATA SHEET

Version 6.3 Revision Date 05/11/2021 Print Date 09/18/2021

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name : RNA/ater®

Product Number : R0901 Brand : Sigma CAS-No. : 7783-20-2

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

Identified uses : Laboratory chemicals, Synthesis of substances

## 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

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

Short-term (acute) aquatic hazard (Category 3), H402

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

# 2.2 GHS Label elements, including precautionary statements

Pictogram none Signal word none

Hazard statement(s)

H402 Harmful to aquatic life.

Precautionary statement(s)

P273 Avoid release to the environment.

P501 Dispose of contents/ container to an approved waste disposal

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Page 1 of 9



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

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Component		Classification	Concentration
ammonium sulphat	e		
CAS-No. EC-No. Registration	7783-20-2 231-984-1	Aquatic Acute 3; H402	>= 50 - < 70 %
number	01-2119455044-46- XXXX		

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

#### **SECTION 4: First aid measures**

#### 4.1 Description of first-aid measures

### If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with

water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

#### If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

#### **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given. For this substance/mixture no limitations of extinguishing agents are given.

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# 5.2 Special hazards arising from the substance or mixture

Carbon oxides

Nitrogen oxides (NOx)

Sulfur oxides

Sodium oxides

Not combustible.

Ambient fire may liberate hazardous vapours.

### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

### 5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. 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

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

# 6.2 Environmental precautions

Do not let product enter drains.

### 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

### 6.4 Reference to other sections

For disposal see section 13.

# **SECTION 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

### Storage conditions

Tightly closed.

Storage class (TRGS 510): 12: Non Combustible Liquids

## 7.3 Specific end use(s)

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

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

### 8.1 Control parameters

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

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## 8.2 Exposure controls

### **Appropriate engineering controls**

Change contaminated clothing. Wash hands after working with substance.

# **Personal protective equipment**

# **Eye/face protection**

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

# Skin protection

not required

# **Respiratory protection**

Not required; except in case of aerosol formation.

### Control of environmental exposure

Do not let product enter drains.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	()No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	Not applicable
q)	Decomposition temperature	No data available
r)	Viscosity	No data available



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s) Explosive properties No data available

t) Oxidizing properties No data available

## 9.2 Other safety information

No data available

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

No data available

#### 10.4 Conditions to avoid

no information available

### 10.5 Incompatible materials

Strong oxidizing agents, Strong bases

# 10.6 Hazardous decomposition products

In the event of fire: see section 5

### **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

#### **Mixture**

### **Acute toxicity**

Oral: No data available

Inhalation: No data available Dermal: No data available

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

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

identified as a known or anticipated carcinogen by NTP.

Sigma - R0901

Page 5 of 9



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

on OSHA's list of regulated carcinogens.

## **Reproductive toxicity**

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

#### 11.2 Additional Information

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

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

# **Components**

### ammonium sulphate

## **Acute toxicity**

LD50 Oral - Rat - male and female - 4,250 mg/kg

(OECD Test Guideline 401) Inhalation: No data available

LD50 Dermal - Rat - male and female - > 2,000 mg/kg

(OECD Test Guideline 434)

No data available

### Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation - 20 h

Remarks: (ECHA)

### Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation

Remarks: (ECHA)

### Respiratory or skin sensitization

Maximization Test - Guinea pig



Result: negative (US-EPA)

## Germ cell mutagenicity

Ames test S. typhimurium

Result: negative

Mutagenicity (mammal cell test): chromosome aberration.

Human lymphocytes Result: negative

In vitro mammalian cell gene mutation test

Chinese hamster lung cells

Result: negative

Mouse - male - Bone marrow

Remarks: (ECHA)

Carcinogenicity

No data available

## Reproductive toxicity

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

#### **Mixture**

No data available

# 12.2 Persistence and degradability

No data available

# 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

# 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Other adverse effects

No data available

## **Components**

### ammonium sulphate

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 53 mg/l - 96 h Remarks: (ECHA)

Sigma - R0901

Page 7 of 9

Toxicity to daphnia static test EC50 - Ceriodaphnia (water flea) - 121.7 mg/l - 48

and other aquatic h

invertebrates

(US-EPA)

Toxicity to algae static test ErC50 - Chlorella vulgaris (Fresh water algae) -

2,700 mg/l - 18 Days Remarks: (ECHA)

Toxicity to bacteria static test EC50 - activated sludge - 1,618 mg/l - 30 min

(OECD Test Guideline 209)

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

### Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

## **SECTION 14: Transport information**

### DOT (US)

Not dangerous goods

#### **IMDG**

Not dangerous goods

### **IATA**

Not dangerous goods

# **Further information**

Not classified as dangerous in the meaning of transport regulations.

# **SECTION 15: Regulatory information**

### **SARA 302 Components**

This material does not contain any components with a section 302 EHS TPQ.

#### **SARA 313 Components**

The following components are subject to reporting levels established by SARA Title III, Section 313:

ammonium sulphate CAS-No. Revision Date 1993-04-24

#### SARA 311/312 Hazards

No SARA Hazards

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Massachusetts Right to Know Components				
ammonium sulphate	CAS-No. 7783-20-2	Revision Date 1993-04-24		
sulphuric acid	7664-93-9	2007-07-01		
No components are subject to the Massachusetts Right to Know Act.				
Pennsylvania Right To Know Components				
water	CAS-No. 7732-18-5	Revision Date		
ammonium sulphate	7783-20-2	1993-04-24		
CITRIC ACID TRISODIUM SALT Dihydrate	6132-04-3			

Massachusetts Right To Know Components

sulphuric acid	7664-93-9	2007-07-01
New Jersey Right To Know Components water	CAS-No.	Revision Date

Water	7732-18-5	Revision Date
ammonium sulphate	7783-20-2	1993-04-24
CITRIC ACID TRISODIUM SALT Dihydrate	6132-04-3	

### **SECTION 16: Other information**

## **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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