



# Shenzhen Sinsche Technology Co.,Ltd

## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Titanium Reagent R1

**Supplier:** Shenzhen Sinsche Technology Co.,Ltd.

ADD: 4/F, T3 Building, Silicon Valley Compound, Qingquan Road, Longhua Street, Longhua District, Shenzhen City, P.RC 518109.

Tel: +86 (755) 82127315 Fax: +86 (755) 82127860

Email:Sinsche@sinsche.com

**Emergency telephone**+86 (755) 82127315 (Mon-Fri 08:30- 18:00)

**Chemical Name:** Not applicable

**CAS No.:** Not applicable

**Chemical Formula:** Not applicable

**Chemical Family:** Not applicable

**PIN:** NA

**Intended Use:** Laboratory Reagent Determination of ammonium nitrogen

**Date of MSDS Preparation:**

**Day:** 22

**Month:** June

**Year:** 2020

### 2 -COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content
Sulfamic acid	226-218-8	5329-14-6	75—95%
L(+)-Ascorbic acid	200-066-2	50-81-7	5—25%

Hazard Symbols: Xi

Risk Phrases: 36/38 52/53

### 🔗 Section 3 - HAZARDS IDENTIFICATION

**CHS Classification**

**Most Important Hazards**

**According to ABNT NBR 14725-2**

Acute toxicity (oral, dermal, inhalation)	Category 4
Serious eye damage/eye irritation	Category 2
Skin sensitisation	Category 1
Specific Target Organ Toxicity – Single exposure,	category 3



## Hazard statements

H315-Causes skin irritation

H319-Causes serious eye irritation

## Precautionary statement

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

P302+P352-IF ON SKIN:Wash with plenty of water and soap

P332+P313-If skin irritation occurs: Get medical advice/attention

P362+P364-Take off all contaminated clothing and wash it before reuse

P305+P351+P338-IF IN EYES:Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do .Continue rinsing

P337+P313-If eye irritation persists:Get medical advice/attention

## Other Hazards Known

Not applicable

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## ➤ Section 4 - FIRST AID MEASURES

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.

Skin:

In case of contact, immediately flush skin with plenty of water.

Remove contaminated clothing and shoes. Get medical aid. Wash clothing before reuse.

Ingestion:

If swallowed, do NOT induce vomiting. Get medical aid immediately.

If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.

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## ➤ Section 5 - FIRE FIGHTING MEASURES



# Shenzhen Sinsche Technology Co.,Ltd

## General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

## Extinguishing Media:

Use extinguishing media most appropriate for the surrounding fire.

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## 🔥 Section 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

### Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

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## 🔥 Section 7 - HANDLING and STORAGE

### Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not breathe dust.

### Storage:

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

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## 🔥 Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

### Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 5329-14-6: Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

### Skin:

Wear appropriate protective gloves to prevent skin exposure.

### Clothing:

Wear appropriate protective clothing to prevent skin exposure.

### Respirators:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

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## ➤ Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Color: light yellow

Odor: odorless

pH: 1.18 (1% aq soln)

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 205 deg C (dec)

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: 205 deg C

Solubility in water: Soluble.

Specific Gravity/Density: Not available.

Molecular Formula: mixture

Molecular Weight: Not available.

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## ➤ Section 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Dust generation, excess heat.

Incompatibilities with Other Materials:

Strong oxidizing agents, strong bases, nitric acid, chlorine, attacks metals in the presence of moisture.

Hazardous Decomposition Products:

Nitrogen oxides, oxides of sulfur, irritating and toxic fumes and gases, ammonia and/or derivatives.

Hazardous Polymerization: Has not been reported.

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## ➤ Section 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 5329-14-6: WO5950000 LD50/LC50:

CAS# 5329-14-6: Draize test, rabbit, eye: 20 mg Moderate; Draize test, rabbit, eye: 250 ug/24H Severe; Draize test, rabbit, skin: 500 mg/24H Severe; Oral, mouse: LD50 = 1312 mg/kg; Oral, rat: LD50 = 3160 mg/kg.

Carcinogenicity:

Sulfamic acid - Not listed by ACGIH, IARC, or NTP.

Other:



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See actual entry in RTECS for complete information.

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## ➤ Section 12 - ECOLOGICAL INFORMATION

Other No information available.

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## ➤ Section 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

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## ➤ Section 14 - TRANSPORT INFORMATION

IATA

Shipping Name: SULPHAMIC ACID

Hazard Class: 8

UN Number: 2967

Packing Group: III

IMO

Shipping Name: SULPHAMIC ACID

Hazard Class: 8

UN Number: 2967

Packing Group: III

RID/ADR

Shipping Name: SULPHAMIC ACID

Hazard Class: 8

UN Number: 2967

Packing group: III

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## ➤ Section 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XI

Risk Phrases:

R 36/38 Irritating to eyes and skin.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 28A After contact with skin, wash immediately with plenty of water.



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S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS# 5329-14-6: 1

Canada

CAS# 5329-14-6 is listed on Canada's DSL List.

CAS# 5329-14-6 is listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 5329-14-6 is listed on the TSCA inventory.



# Shenzhen Sinsche Technology Co.,Ltd

## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Titanium Reagent R2

**Supplier:** Shenzhen Sinsche Technology Co.,Ltd.

ADD: 4/F, T3 Building, Silicon Valley Compound, Qingquan Road, Longhua Street, Longhua District, Shenzhen City, P.R.C 518109.

Tel: +86 (755) 82127315 Fax: +86 (755) 82127860

Email: Sinsche@sinsche.com

**Emergency telephone:** +86 (755) 82127315 (Mon-Fri 08:30- 18:00)

**Chemical Name:** Not applicable

**CAS No.:** Not applicable

**Chemical Formula:** Not applicable

**Chemical Family:** Not applicable

**PIN:** NA

**Intended Use:** Laboratory Reagent Determination of ammonium nitrogen

**Date of MSDS Preparation:**

**Day:** 22

**Month:** June

**Year:** 2020

### 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content
Cetyltrimethylammonium bromide	200-311-3	57-09-0	0.5—2%
Alcohol	200-578-6	64-17-5	30—40%
Pour water	231-791-2	7732-18-5	59—70%

Hazard Symbols: XN

Risk Phrases: 22 36/37/38

### 3 - HAZARDS IDENTIFICATION

**CHS Classification**

**Most Important Hazards**

**According to ABNT NBR 14725-2**

Acute toxicity - Oral	Category 5 - (H303)
Carcinogenicity	Category 1B - (H350)
Reproductive toxicity	Category 2 - (H361)

**Label elements**

Signal word - Danger



Health hazard

## **Hazard statements**

H303 - May be harmful if swallowed

H350 - May cause cancer

H361 - Suspected of damaging fertility or the unborn child

## **Precautionary statement**

P312 - Call a POISON CENTER or doctor if you feel unwell

P201 - Obtain special instructions before use

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

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

## **Other Hazards Known**

Not applicable

## **4 - FIRST AID MEASURES**

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.

Skin:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Get medical aid immediately. Wash clothing before reuse.

Ingestion:

If swallowed, do NOT induce vomiting. Get medical aid immediately.

If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.

## **5 - FIRE FIGHTING MEASURES**

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by





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thermal decomposition or combustion.

Extinguishing Media:

Use extinguishing media most appropriate for the surrounding fire.

## 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Carefully scoop up and place into appropriate disposal container. Provide ventilation.

## 7 - HANDLING and STORAGE

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Do not get on skin or in eyes. Do not ingest or inhale.

Storage:

Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

## 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

## 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid

Appearance: red

Odor: None reported.



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pH: Not available.  
Vapor Pressure: Negligible.  
Viscosity: Not available.  
Boiling Point: Decomposes  
Freezing/Melting Point: 235 deg C(dec)  
Autoignition Temperature: Not available.  
Flash Point: Not applicable.  
Explosion Limits, lower: N/A  
Explosion Limits, upper: N/A  
Decomposition Temperature: 235 deg C  
Solubility in water:  
Specific Gravity/Density: Not available.  
Molecular Formula: solution  
Molecular Weight: Not available.

## 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable. However, may decompose if heated.

Conditions to Avoid:

Incompatible materials, dust generation, moisture, excess heat, temperatures above 150C.

Incompatibilities with Other Materials:

Strong oxidizing agents.

Hazardous Decomposition Products:

Nitrogen oxides, carbon monoxide, carbon dioxide, hydrogen bromide.

Hazardous Polymerization: Has not been reported.

## 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 57-09-0: BQ7875000 LD50/LC50:

CAS# 57-09-0: Draize test, rabbit, eye: 450 mg Severe; Oral, rat: LD50 = 410 mg/kg.

Carcinogenicity:

Hexadecyltrimethylammonium bromide - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Other:

See actual entry in RTECS for complete information.

## 12 - ECOLOGICAL INFORMATION

Other No information available.

## 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

## 14 - TRANSPORT INFORMATION



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## IATA

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

## IMO

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

RID/ADR

Shipping Name: Not regulated.

Dangerous Goods Code:

UN Number:

## 15 - REGULATORY INFORMATION

### European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 22 Harmful if swallowed.

R 36/37/38 Irritating to eyes, respiratory system  
and skin.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately  
with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face  
protection.

WGK (Water Danger/Protection)

CAS# 57-09-0: 3

United Kingdom Occupational Exposure Limits

### Canada

CAS# 57-09-0 is listed on Canada's DSL List.

CAS# 57-09-0 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 57-09-0 is listed on the TSCA inventory.