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#### Tin, Reagent Grade

#### **SECTION 1: Identification**

#### Product identifier

Product name: Tin, Reagent Grade Product code: SN6010

# Recommended use of the product and restriction on use

Relevant identified uses: Not determined or not applicable. Uses advised against: Not determined or not applicable. Reasons why uses advised against: Not determined or not applicable.

### Manufacturer or supplier details

Manufacturer: United States AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 1-717-632-1291

# Emergency telephone number: United States ChemTel Inc +1(800)255-3924 +1(813)248-0585

#### SECTION 2: Hazard(s) identification

GHS classification: Not a hazardous substance or mixture Label elements Hazard pictograms: None

Signal word: None

Hazard statements: None Precautionary statements: None Hazards not otherwise classified: None

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

Identification	Name	Weight %
CAS number: 7440-31-5	Tin	100

#### Additional Information: None

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

## **Description of first aid measures**

### **General notes:**

Not determined or not applicable.

## After inhalation:

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Loosen clothing as necessary and position individual in a comfortable position Maintain an unobstructed airway

#### After skin contact:

Rinse affected area with soap and water If symptoms develop or persist, seek medical attention

#### After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes If symptoms develop or persist, seek medical attention

#### After swallowing:

Rinse mouth thoroughly Seek medical attention if irritation, discomfort, or vomiting persists

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

#### Acute symptoms and effects:

Not determined or not applicable.

#### **Delayed symptoms and effects:**

Not determined or not applicable.

#### Immediate medical attention and special treatment

#### Specific treatment:

Not determined or not applicable.

# Notes for the doctor:

Not determined or not applicable.

## **SECTION 5: Firefighting measures**

#### Extinguishing media

#### Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

#### Unsuitable extinguishing media:

Not determined or not applicable.

#### Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

#### Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing Refer to Section 8

#### Special precautions:

Avoid inhaling gases, fumes, dust, mist, vapor and aerosols Avoid contact with skin, eyes and clothing

#### **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation Ensure air handling systems are operational Wear protective eye wear, gloves and clothing

#### **Environmental precautions:**

Should not be released into the environment Prevent from reaching drains, sewer or waterway

#### Methods and material for containment and cleaning up:

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Wear protective eye wear, gloves and clothing

#### **Reference to other sections:**

Not determined or not applicable.

#### **SECTION 7: Handling and storage**

#### Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances. Avoid breathing mist or vapor.

### Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.

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

Only those substances with limit values have been included below.

### **Occupational Exposure limit values:**

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Tin	7440-31-5	ACGIH TLV TWA 2 mg/m <sup>3</sup> as Sn
United States (OSHA)	Tin	7440-31-5	OSHA PEL TWA 2 mg/m <sup>3</sup> as Sn
NIOSH	Tin	7440-31-5	NIOSH IDLH 100 mg/m <sup>3</sup> as Sn

## **Biological limit values:**

No biological exposure limits noted for the ingredient(s).

### Information on monitoring procedures:

Not determined or not applicable.

## Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

## Personal protection equipment

#### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

### Skin and body protection:

Select glove material impermeable and resistant to the substance.

#### **Respiratory protection:**

When necessary, use NIOSH-approved breathing equipment.

#### General hygienic measures:

Wash hands before breaks and at the end of work. Avoid contact with skin, eyes and clothing.

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

#### Information on basic physical and chemical properties

Appearance	Grey Solid
Odor	Odorless
Odor threshold	Not determined or not available.
рН	Not applicable.
Melting point/freezing point	231.9°C
Initial boiling point/range	2507°C

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Flash point (closed cup)	Not determined or not available.
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	0.19 %
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	1 mmHg at 1492°C
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	7.31 g/cm3
Solubilities	Slightly soluble in hot water available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	430°C
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

### Other information

Molecular Weight

118.70

## **SECTION 10: Stability and reactivity**

#### **Reactivity:**

Does not react under normal conditions of use and storage.

## **Chemical stability:**

Stable under normal temperatures and pressures. Oxidizes when exposed to air.

## Possibility of hazardous reactions:

None under normal conditions of use and storage.

## Conditions to avoid:

Incompatible materials, dust generation, moisture, excess heat.

### Incompatible materials:

Halogens, nitric acid, sodium peroxide, sulfur, copper nitrate, hydrochloric acid, tin chloride, potassium peroxide.

### Hazardous decomposition products:

Potassium peroxide, tin/tin oxides.

## **SECTION 11: Toxicological information**

#### Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

## Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

#### Product data: No data available.

Substance data: No data available.

### Serious eye damage/irritation

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Accessment, Deced on available dat	
Assessment: Based on available dat	a, the classification criteria are not met.
Product data: No data available.	
Substance data: No data available.	
Respiratory or skin sensitization	
	a, the classification criteria are not met.
Product data: No data available.	
Substance data: No data available.	
Carcinogenicity	
	a, the classification criteria are not met.
Product data: No data available.	
Substance data: No data available.	
International Agency for Research	h on Cancer (IARC): None of the ingredients are listed.
National Toxicology Program (NT	P): None of the ingredients are listed.
Germ cell mutagenicity	
Assessment: Based on available dat	a, the classification criteria are not met.
Product data: No data available.	
Substance data: No data available.	
Reproductive toxicity	
Assessment: Based on available dat	a, the classification criteria are not met.
Product data: No data available.	
Substance data: No data available.	
Specific target organ toxicity (single	exposure)
Assessment: Based on available dat	a, the classification criteria are not met.
Product data: No data available.	
Substance data: No data available.	
Specific target organ toxicity (repea	ted exposure)
Assessment: Based on available dat	a, the classification criteria are not met.
Product data: No data available.	
Substance data: No data available.	
Aspiration toxicity	
Assessment: Based on available dat	a, the classification criteria are not met.
Product data: No data available.	
Substance data: No data available.	
Information on likely routes of expos	
	hemical and toxicological characteristics: No data availab
Other information: No data available.	

Product data: No data available.

Substance data: No data available.

### Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

### Persistence and degradability

Product data: No data available.

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Substance data: No data available. Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

## Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

# SECTION 13: Disposal considerations

### **Disposal methods:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

# **SECTION 14: Transport information**

## United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

#### International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

#### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

### **SECTION 15: Regulatory information**

#### **United States regulations**

#### Inventory listing (TSCA):

7440-31-5	Tin	Listed
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## Tin, Reagent Grade

	on under TSCA Sec	tion 12(b): Not de	etermined.	
SARA Section 31	1/312 hazards:			
Acute	Chronic	Fire	Pressure	Reactive
No	No	No	No	No
SARA Section 30	2 extremely hazar	dous substances	Not determined.	·
SARA Section 31	3 toxic chemicals:	Not determined.		
CERCLA: Not dete	rmined.			
RCRA: Not determ	inad			
<b>ICTA:</b> NOT DETERM	ineu.			
	the Clean Air Act	(CAA): Not determ	ined.	
Section 112(r) of	the Clean Air Act	(CAA): Not determ	ined.	
Section 112(r) of	the Clean Air Act	(CAA): Not determ	ined.	Listed
Section 112(r) of Massachusetts R 7440-31-5	the Clean Air Act ight to Know: Tin	(CAA): Not determ	ined.	Listed
Section 112(r) of Massachusetts R 7440-31-5	the Clean Air Act ight to Know: Tin	(CAA): Not determ	ined.	Listed
Section 112(r) of Massachusetts R 7440-31-5 New Jersey Right 7440-31-5	the Clean Air Act ight to Know: Tin to Know: Tin	(CAA): Not determ	ined.	
Section 112(r) of Massachusetts R 7440-31-5 New Jersey Right	the Clean Air Act ight to Know: Tin to Know: Tin	(CAA): Not determ	ined.	
Section 112(r) of Massachusetts R 7440-31-5 New Jersey Right 7440-31-5 New York Right t	the Clean Air Act ight to Know: Tin to Know: Tin to Know: Tin Tin	(CAA): Not determ	ined.	Listed

California Proposition 65: None of the ingredients are listed.

# **SECTION 16: Other information**

# Abbreviations and Acronyms: None

# **Disclaimer:**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

# NFPA: 1-1-0

HMIS: 1-1-1 Initial preparation date: 02.21.2018

# End of Safety Data Sheet