

# SAFETY DATA SHEETS

# According to the UN GHS revision 8

Version: 1.0 Creation Date: July 15, 2019 Revision Date: July 15, 2019

		Revision Date: July 15, 2019	
SEC	CTION 1: Identification		
1.1	GHS Product identifier		
Prod	uct name	Thiazolidine-4-carboxylic acid	
1.2	Other means of identific	ation	
Othe	r names		
1.3	Recommended use of the chemical and restrictions on use		
	Identified uses	Industrial and scientific research uses.	
	Uses advised against	no data available	
1.4	Supplier's details		
	Company	Shanghai Tachizaki Biomedical Research Center	
	Address	Building C, 888 Huanhu West Second Road, Lingang New Area, China (Shanghai) Pilot Free Trade Zone	
	Tel/Email	+86-18014399201/sales@chemlab-tachizaki.com	
1.5	Emergency phone num	ber	
	Emergency phone number	+86-180 14399 201	
SEC	CTION 2: Hazard identific	cation	
2.1	Classification of the substance or mixture		
	Acute toxicity - Category 4, Oral Eye irritation, Category 2		
2.2	GHS label elements, including precautionary statements		
	Pictogram(s)	!	
	Signal word	Warning	
	Hazard statement(s)	H302 Harmful if swallowed	
		H319 Causes serious eye irritation	
	Precautionary statement(s) Prevention	P264 Wash thoroughly after handling.	
	rievenuon	1 204 Wash Uloloughly alter handling.	

P270 Do not eat, drink or smoke when using this product.

contact lenses, if present and easy to do. Continue rinsing.

P301+P317 IF SWALLOWED: Get medical help.

protection/...

none

P330 Rinse mouth.

Response

Storage

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

# 2.3 Other hazards which do not result in classification

no data available

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

## 3.1 Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
Timonacic	Timonacic	444-27-9	207-146-6	100%

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

## 4.1 Description of necessary first-aid measures

#### lf inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

#### Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

#### Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

#### **Following ingestion**

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

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

no data available

## 4.3 Indication of immediate medical attention and special treatment needed, if necessary

no data available

# **SECTION 5: Fire-fighting measures**

#### 5.1 Suitable extinguishing media

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

#### 5.2 Specific hazards arising from the chemical

no data available

#### 5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

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

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

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

## 6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

## 6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

# **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

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

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

## SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

**Occupational Exposure limit values** 

no data available

**Biological limit values** 

no data available

## 8.2 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

#### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

#### Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### **Respiratory protection**

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

#### Thermal hazards

no data available

# SECTION 9: Physical and chemical properties and safety characteristics

Physical state	no data available
Colour	no data available
Odour	no data available
Melting point/freezing point	199 - 201°C
Boiling point or initial boiling poin	∎t 350.3°C at 760mmHg
and boiling range	
Flammability	no data available
Lower and upper explosion	no data available
limit/flammability limit	
Flash point	165.7℃
Auto-ignition temperature	no data available
Decomposition temperature	no data available
рН	no data available

Kinematic viscosity	no data available
Solubility	no data available
Partition coefficient n-	no data available
octanol/water	
Vapour pressure	no data available
Vapour pressure Density and/or relative density	no data available 1.38g/cm3
Density and/or relative density	1.38g/cm3

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

no data available

### 10.2 Chemical stability

no data available

## 10.3 Possibility of hazardous reactions

no data available

## 10.4 Conditions to avoid

no data available

## 10.5 Incompatible materials

no data available

## 10.6 Hazardous decomposition products

no data available

# **SECTION 11: Toxicological information**

## Acute toxicity

- Oral: no data available
- Inhalation: no data available
- Dermal: no data available

#### Skin corrosion/irritation

no data available

#### Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

#### Aspiration hazard

no data available

# **SECTION 12: Ecological information**

## 12.1 Toxicity

- Toxicity to fish: no data available
- · Toxicity to daphnia and other aquatic invertebrates: no data available
- Toxicity to algae: no data available
- Toxicity to microorganisms: 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 Other adverse effects

no data available

# **SECTION 13: Disposal considerations**

# 13.1 Disposal methods

#### Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

# **SECTION 14: Transport information**

# 14.1 UN Number

	ADR/RID: UN2811 (For reference only,	IMDG: UN2811 (For reference only,	IATA: UN2811 (For reference only,
	please check.)	please check.)	please check.)
14.2	UN Proper Shipping Name		
	ADR/RID: TOXIC SOLID, ORGANIC, N.O.S. (For reference only, please check.)	IMDG: TOXIC SOLID, ORGANIC, N.O.S. (For reference only, please check.)	IATA: TOXIC SOLID, ORGANIC, N.O.S. (For reference only, please check.)
14.3	Transport hazard class(es)		
	ADR/RID: 6.1 (For reference only, please check.)	IMDG: 6.1 (For reference only, please check.)	IATA: 6.1 (For reference only, please check.)
14.4	Packing group, if applicable		
	ADR/RID: I (For reference only, please check.)	IMDG: I (For reference only, please check.)	IATA: I (For reference only, please check.)
14.5	Environmental hazards		
	ADR/RID: No	IMDG: No	IATA: No

## 14.6 Special precautions for user

no data available

# 14.7 Transport in bulk according to IMO instruments

no data available

# **SECTION 15: Regulatory information**

## 15.1 Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
Timonacic	Timonacic	444-27-9	207-146-6
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed.
EC Inventory			Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)			Not Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Not Listed.
Vietnam National Chemical Inventory			Not Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Not Listed.
Korea Existing Chemicals List (KECL)			Listed.

# **SECTION 16: Other information**

Information on revision

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#### Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

#### References

- IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- eChemPortal The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en
- CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- ChemlDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- ECHA European Chemicals Agency, website: https://echa.europa.eu/

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