



# SAFETY DATA SHEET

According to JIS Z 7253:2012

Revision Date 18-Mar-2019

Version 2.01

# **Section 1: PRODUCT AND COMPANY IDENTIFICATION**

Product name	Thyrotropin Releasing Hormone		
Product code	200-07941		
CAS No	24305-27-9		

Formula C16H22N6O4·C4H6O6·H2O

Manufacturer FUJIFILM Wako Pure Chemical Corporation

1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-5964

Supplier FUJIFILM Wako Pure Chemical Corporation

1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan

Phone: +81-6-6203-3741 Fax: +81-6-6203-2029

Emergency telephone number

Recommended uses and

restrictions on use

Announcement of company name

change

+81-6-6203-3741 / +81-3-3270-8571

For research purposes

Company name has changed since April 1, 2018. Former name was "Wako Pure Chemical

Industries, Ltd."

### Section 2: HAZARDS IDENTIFICATION

GHS classification
Classification of the substance or mixture
Acute toxicity - Inhalation (Dusts/Mists)

Category 4

## **Pictograms**



Signal word Warning

#### **Hazard statements**

H332 - Harmful if inhaled

### **Precautionary statements-(Prevention)**

- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area

#### **Precautionary statements-(Response)**

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or doctor/physician if you feel unwell.

Precautionary statements-(Storage)

Not applicable

#### **Precautionary statements-(Disposal)**

Not applicable

**Others** 

Other hazards Not available

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula C16H22N6O4·C4H6O6·H2O

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS No.
Thyrotropin Releasing	98.5 (as dehydrous	530.49	N/A	N/A	24305-27-9
Hormone	basis)				

Impurities and/or Additives : Not applicable

# **Section 4: FIRST AID MEASURES**

#### Inhalation

Remove to fresh air. If symptoms persist, call a physician.

#### Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

#### Eve contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

### Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

### Protection of first-aiders

Use personal protective equipment as required.

### **Section 5: FIRE FIGHTING MEASURES**

### Suitable extinguishing media

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

#### Unsuitable extinguishing media

No information available

### Special extinguishing method

No information available

#### Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

#### Protection of fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

### Section 6: ACCIDENTAL RELEASE MEASURES

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

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or

inhaling the gas. Work from windward, and retract the people downwind.

#### **Environmental precautions**

To be careful not discharged to the environment without being properly handled waste water contaminated.

### Methods and materials for contaminent and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

### Recoverly, neutralization

No information available

#### Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

### Section 7: HANDLING AND STORAGE

### **Handling**

#### **Technical measures**

Avoid contact with strong oxidizing agents. Use with local exhaust ventilation.

#### **Precautions**

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

#### Safety handling precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

#### Storage

Safe storage conditions

Storage conditions Store away from sunlight in cold (-20°C). Keep container tightly closed.

Safe packaging material vial

Incompatible substances Strong oxidizing agents

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Engineering controls**

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and hand- and eye-wash facility. And display their position clearly.

Exposure limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Personal protective equipment

Respiratory protection Dust mask
Hand protection Protection gloves

**Eye protection** protective eyeglasses or chemical safety goggles

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Form** 

Color
Appearance
Odor
PH

Melting point/freezing point

Color
Melting point/freezing point

Color
No data available
3.0 - 4.0 (10g/l , 25 °C)
187 °C (dec.)

Boiling point, initial boiling point and boiling range
No data available
No data available

**Evaporation rate:**Flammability (solid, gas):
No data available

Upper/lower flammability or

explosive limits

Upper:
Lower:
No data available
No data available
Vapour pressure
No data available
Vapour density
No data available
Specific Gravity / Relative density
No data available

**Solubilities** water : free soluble . Ethanol : practically insoluble, or insoluble .

n-Octanol/water partition coefficient:(log Pow)

Auto-ignition temperature:

Decomposition temperature:

Viscosity (coefficient of viscosity)

No data available

### Section 10: STABILITY AND REACTIVITY

#### Stability

**Stability** Stable under recommended storage conditions.

**Reactivity** No data available

**Hazardous reactions** 

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx)

### Section 11: TOXICOLOGICAL INFORMATION

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Thyrotropin Releasing Hormone	> 5 g/kg (Rat)	N/A	N/A

Skin irritation/corrosionNo data availableSerious eye damage/ irritationNo data availableRespiratory or skin sensitizationNo data availableReproductive cell mutagenicityNo data availableCarcinogenicityNo data available

Reproductive toxicityNo data availableSTOT-single exposureNo data availableSTOT-repeated exposureNo data availableAspiration hazardNo data available

### **Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** No information available

Other data No data available

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

No information available
No information available
No information available

# **Section 13: DISPOSAL CONSIDERATIONS**

#### Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### **Section 14: TRANSPORT INFORMATION**

ADR/RID Not regulated

UN number

Proper shipping name: UN classfication Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IMDG Not regulated

UN number

Proper shipping name: UN classfication Subsidiary hazard class

**Packing group** 

Marine pollutant (Sea) Not applicable

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

IATA Not regulated

UN number

Proper shipping name: UN classfication Subsidiary hazard class

Packing group

**Environmentally Hazardous** 

Substance

Not applicable

No information available

# **Section 15: REGULATORY INFORMATION**

**International Inventories** 

**EINECS/ELINCS** Listed -

Japanese regulations

Fire Service Act
Poisonous and Deleterious
Not applicable
Not applicable

**Substances Control Law** 

**Industrial Safety and Health Act** Not applicable **Regulations for the carriage and** Not applicable

storage of dangerous goods in

ship

Civil Aeronautics Law
Pollutant Release and Transfer

Not applicable Not applicable

**Register Law** 

Export Trade Control Order Not applicable

# **Section 16: OTHER INFORMATION**

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN)

http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations

RTECS:Registry of Toxic Effects of Chemical Substances
Japan Industrial Safety and Health Association GHS Model SDS

Dictionary of Synthetic Oraganic Chemistry, SSOCJ, Koudansha Scientific Co.Ltd.

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

etc

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z7252(2014). \*JIS: Japanese Industrial Standards

**Product information** 

You might get a product which indicates a former company name, during the period of

transition.

**End of Safety Data Sheet** 

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