#### **SAFETY DATA SHEETS**

# According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Sixth revised edition

Version: 1.0

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#### 1.Identification

#### 1.1GHS Product identifier

**Product name** (3aR,4S,5R,6aS)-5-hydroxy-4-(hydroxymethyl)-3,3a,4,5,6,6a-

hexahydrocyclopenta[b]furan-2-one

#### 1.20ther means of identification

Product number -

Other names (3aR,4S,5R,6aS)-5-Hydroxy-4-(hydroxymethyl)hexahydro-2H-cyclopenta[b]furan-

2-one

### 1.3Recommended use of the chemical and restrictions on use

**Identified uses** For industry use only.

**Uses advised against** no data available

1.4Supplier's details

Company www.whxinru.cn

Address Room 2805, Building 1, North Huxinhuiyu, Changqing Road,

Wuhan , China 430015, China

**Telephone** +86-27-5984 3600

Fax +86-27-6666 0488

#### 2. Hazard identification

#### 2.1Classification of the substance or mixture

no data available

#### 2.2GHS label elements, including precautionary statements

**Pictogram(s)** no data available

Signal word no data available

**Hazard statement(s)** no data available

**Precautionary statement(s)** 

**Prevention** no data available

**Response** no data available

**Storage** no data available

**Disposal** no data available

## 2.30ther hazards which do not result in classification

## 3. Composition/information on ingredients

#### 3.1Substances

Chemical name	Common names and synonyms		EC number	Concentrati on
(3aR,4S,5R,6aS)-5-hydroxy-4- (hydroxymethyl)-3,3a,4,5,6,6a- hexahydrocyclopenta[b]furan-2-one	1/ hv/drovv/mothv/l 1- 3 3 2 4 5 6 62-	32233- 40-2	none	100%

#### 4.First-aid measures

## 4.1Description of necessary first-aid measures

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

## In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

no data available

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

no data available

## 5. Fire-fighting measures

# 5.1Extinguishing media

## Suitable extinguishing media

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

## 5.2Specific hazards arising from the chemical

no data available

### 5.3Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### 6.Accidental release measures

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

# **6.2Environmental precautions**

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

## 6.3Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. Handling and storage

#### 7.1Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

## 7.2Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## 8.Exposure controls/personal protection

## 8.1Control parameters

## **Occupational Exposure limit values**

no data available

## **Biological limit values**

no data available

#### 8.2Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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

#### **Eye/face protection**

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## **Skin protection**

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. 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**

Wear dust mask when handling large quantities.

#### Thermal hazards

no data available

## 9. Physical and chemical properties

**Physical state** white to beige-brown cryst. powder or crystals

**Colour** no data available

**Odour** no data available

**Melting point/ freezing point** 259\u00b0C(lit.)

Boiling point or initial boiling

point and boiling range

302\u00b0C(lit.)

**Flammability** no data available

Lower and upper explosion limit / flammability limit

no data available

Flash point 49\u00b0C(lit.)

**Auto-ignition temperature** no data available

**Decomposition temperature** no data available

**pH** no data available

**Kinematic viscosity** no data available

**Solubility** no data available

Partition coefficient noctanol/water (log value) no data available

**Vapour pressure** no data available

Density and/or relative

density

1.365 g/cm3

**Relative vapour density** no data available

Particle characteristics no data available

10. Stability and reactivity

10.1Reactivity

no data available

#### 10.2Chemical stability

Stable under recommended storage conditions.

#### 10.3Possibility of hazardous reactions

no data available

#### 10.4Conditions to avoid

no data available

#### 10.5Incompatible materials

no data available

#### 10.6Hazardous decomposition products

no data available

## 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

## 12. Ecological information

# 12.1Toxicity

- 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

# 12.2Persistence and degradability

no data available

## 12.3Bioaccumulative potential

no data available

# 12.4Mobility in soil

no data available

#### 12.50ther adverse effects

no data available

# 13.Disposal considerations

# 13.1Disposal 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.

# 14.Transport information

#### 14.1UN Number

ADR/RID: UN2788 IMDG: UN2788 IATA: UN2788

## 14.2UN Proper Shipping Name

ADR/RID: ORGANOTIN COMPOUND, LIQUID, N.O.S.

IMDG: ORGANOTIN COMPOUND, LIQUID, N.O.S.

IATA: ORGANOTIN COMPOUND, LIQUID, N.O.S.

# 14.3Transport hazard class(es)

ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

14.4Packing group, if applicable

ADR/RID: III IMDG: III IATA: III

14.5Environmental hazards

ADR/RID: no IMDG: no IATA: no

#### 14.6Special precautions for user

no data available

#### 14.7Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

# 15.Regulatory information

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

Chemical name	Common names and synonyms	CAS number	EC number
	(, a. a., a., ., a, a, ., a,	32233-40-2	none

European Inventory of Existing Commercial Chemical Substances (EINECS)	Not Listed.	
EC Inventory	Not Listed.	
United States Toxic Substances Control Act (TSCA) Inventory	Not 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.	

## 16.Other information

# **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%