

天津普西唐生物医药科技有限公司

Tianjin Psaitong Biomedical Technology Co., Ltd

北京普西唐生物科技有限公司

Beijing Psaitong Biotechnology Co., Ltd

# SAFETY DATA SHEETS

# According to the UN GHS revision 9

Version: 1.0

Creation Date: July 15, 2024 Revision Date: July 15, 2024

# **SECTION 1: Identification**

### 1.1 GHS Product identifier

**Product name** 

#### 1.2 Other means of identification

Product number Z20032

Other names

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

**Identified uses** Industrial and scientific research use.

Uses advised against no data available

1.4 Supplier's details

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1.5 Emergency phone number

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### **SECTION 2: Hazard identification**

## 2.1 Classification of the substance or mixture

Hazardous to the aquatic environment, short-term (Acute) - Category Acute 1
Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 1

# 2.2 GHS label elements, including precautionary statements

Pictogram(s)



Signal word Warning

Hazard statement(s) H410 Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

**Prevention** P273 Avoid release to the environment.

**Response** P391 Collect spillage.

**Storage** none

**Disposal** 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

## 2.3 Other hazards which do not result in classification

no data available

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

#### 3.1 Substances

Chemic	cal name	Common names and synonyms	CAS number	EC number	Concentration
Zinc	oxide	Zinc oxide	1314-13-2	215-222-5	100%

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

### 4.1 Description of necessary first-aid measures

#### If inhaled

Fresh air, rest. Refer for medical attention if breathing difficulties and/or fever develop.

#### Following skin contact

Rinse and then wash skin with water and soap.

#### Following eye contact

Rinse with plenty of water (remove contact lenses if easily possible).

#### Following ingestion

Rinse mouth. Refer for medical attention if you fell unwell.

## 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

Not combustible.

# 5.3 Special protective actions for fire-fighters

In case of fire in the surroundings, use appropriate extinguishing media.

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

## 6.1 Personal precautions, protective equipment and emergency procedures

Personal protection: particulate filter respirator adapted to the airborne concentration of the substance. Do NOT let this chemical enter the environment. Sweep spilled substance into covered containers. If appropriate, moisten first to prevent dusting. Carefully collect remainder. Then store and dispose of according to local regulations.

### 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

NO contact with incompatible materials: See Chemical Dangers 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

Separated from incompatible materials. See Chemical Dangers. Provision to contain effluent from fire extinguishing.

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

# 8.1 Control parameters

#### Occupational Exposure limit values

TLV: 2 mg/m3, as TWA; 10 mg/m3 as STEL.MAK: (as Zn, respirable fraction): 0.1 mg/m3; peak limitation category: I(4); (as Zn, inhalable fraction): 2 mg/m3; peak limitation category: I(2); pregnancy risk group: C

#### **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 safety goggles.

#### Skin protection

Protective gloves.

# Respiratory protection

Use local exhaust or breathing protection.

#### Thermal hazards

no data available

# SECTION 9: Physical and chemical properties and safety characteristics

no data available

Physical statewhite powderColourno data availableOdourno data available

Melting point/freezing point 1975°C Boiling point or initial boiling point 2360°C

and boiling range

Flammability no data available
Lower and upper explosion no data available

limit/flammability limit

Flash point 12°C

Auto-ignition temperature no data available

Decomposition temperature no data available

pH no data available

Kinematic viscosity no data available

**Solubility** In water: 1.6 mg/L (29  $^{\circ}$ C)

Partition coefficient n-

octanol/water

Vapour pressure no data available

Density and/or relative density 1.25g/mL±0.05g/mLat 25°C

Relative vapour density no data available

Particle characteristics no data available

# **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.Reacts violently with aluminium powder, magnesium powder and chlorinated rubber (on heating). This generates fire and explosion hazard.

# 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

May cause mechanical irritation to the eyes and respiratory tract. The fume is irritating to the respiratory tract. Inhalation of fumes may cause metal fume fever. See Notes.

#### STOT-repeated exposure

no data available

#### Aspiration hazard

A harmful concentration of airborne particles can be reached quickly, especially for fume.

# **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: UN3077 (For reference only, please check.)

IMDG: UN3077 (For reference only, please check.)

IATA: UN3077 (For reference only, please check.)

# 14.2 UN Proper Shipping Name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. SUBSTANCE, SOLID, N.O.S. (For (For reference only, please check.)

IMDG: ENVIRONMENTALLY HAZARDOUS IATA: ENVIRONMENTALLY HAZARDOUS reference only, please check.)

SUBSTANCE, SOLID, N.O.S. (For reference only, please check.)

## 14.3 Transport hazard class(es)

ADR/RID: 9 (For reference only, please check.)

IMDG: 9 (For reference only, please check.)

IATA: 9 (For reference only, please check.)

### 14.4 Packing group, if applicable

ADR/RID: III (For reference only, please check.)

IMDG: III (For reference only, please check.)

IATA: III (For reference only, please check.)

#### 14.5 Environmental hazards

ADR/RID: Yes IMDG: Yes IATA: Yes

#### 14.6 Special precautions for user

no data available

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	
Zinc oxide	Zinc oxide	1314-13-2	215-222-5	
European Inventory of Existing Commercial Chemical Substances (EINECS)				
EC Inventory			Listed.	
United States Toxic Substances Control Act (TSCA) Inventory				
China Catalog of Hazardous chemicals 2015				
New Zealand Inventory of Chemicals (NZIoC)				
Philippines Inventory of Chemicals and Chemical Substances (PICCS)				
Vietnam National Chemical Inventory				
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)				
Korea Existing Chemicals I	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/

#### Other Information

The symptoms of metal fume fever do not become manifest until a few hours have passed.

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier

shall not be held liable for any damage resulting from handling or from contact with the above product.							