Effective Date: 2018/03/13 DG1802900E

# SAFETY DATA SHEET

# 1,2-Benzisothiazolin-3-one

DAFENG YUELONG CHEMICAL CO., LTD.

According to GHS (Seventh Revised Edition)



# Section 1 Product and Company Identification

> Product Identifier

**Product Name** 

1,2-Benzisothiazolin-3-one

Synonyms

70

CAS No.

2634-33-5

EC No.

220-120-9

Molecular Formula

C7H5NOS

> Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified

Uses

Biocide for Industrial application.

**Uses Advised Against** 

Please consult manufacturer.

> Details of the Supplier of the Safety Data Sheet

**Applicant Name** 

DAFENG YUELONG CHEMICAL CO., LTD.

**Application Address** 

Weier Road, Huafeng Industrial Park, Dafeng District, Yancheng City, Jiangsu

Applicant Post Code

224100

Applicant Telephone

+86-515-83287349

**Applicant Fax** 

+86-515-83287379

**Applicant E-mail** 

jinfengzhou@yuelongchem.com

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> Emergency Phone Number

**Emergency Phone** 

Number

+86-515-83287349

## Section 2 Hazards Identification

Hazard class and label elements of the product according to GHS (the seventh revised edition):

> GHS Hazard Class

Acute Toxicity - Oral

Category 4

Skin

Category 2

Corrosion/Irritation

Sensitization – Skin Category 1
Eye Damage/Irritation Category 1

**Hazardous To The** 

Aquatic Environment
- Short-Term (Acute)

Category 1

Hazard

### > GHS Label Elements

Pictogram

Signal Word

Danger

### > Hazard Statements

H302 Harmful if swallowed H315 Causes skin irritation

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H400 Very toxic to aquatic life

### > Precautionary Statements

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

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

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

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

Response

P310 Immediately call a POISON CENTER/doctor.

P330 Rinse mouth.
P391 Collect spillage.

P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor, if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

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

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

Storage

Not applicable

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

# Section 3 Composition/Information on Ingredients

Component

Concentration (weight

CAS No.

EC No.

	percent, %)	a	
1,2-Benzisothiazolin-3-One	85	2634-33-5	220-120-9
Water	15	7732-18-5	231-791-2

### Section 4 First Aid Measures

### > Description of First Aid Measures

<b>General Advice</b>	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin Contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of First-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

## > Most Important Symptoms and Effects, both Acute and Delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

# > Indication of Any Immediate Medical Attention and Special Treatment Needed

- Treat symptomatically.
- 2 Symptoms may be delayed.

# Section 5 Fire Fighting Measures

### > Extinguishing Media

Suitable Extinguishing

Media

Dry chemical, carbon dioxide or alcohol-resistant foam.

Unsuitable

**Extinguishing Media** 

Do not use a solid water stream as it may scatter or spread fire.

### > Specific Hazards Arising from the Substance or Mixture

- Containers may explode when heated.
- 2 Fire exposed containers may vent contents through pressure relief valves.
- 3 May expansion or decompose explosively when heated or involved in fire.

### > Advice for Firefighters

- As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

### Section 6 Accidental Release Measure

# Personal Precautions, Protective Equipment and Emergency Procedures

- 1 Ensure adequate ventilation. Remove all sources of ignition.
- 2 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 3 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

### > Environmental Precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

## > Methods and Materials for Containment and Cleaning Up

- Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- 3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

# Section 7 Handling and Storage

## Precautions for Handling

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.
- 4 Keep away from heat/sparks/open flames/ hot surfaces.
- 5 Take precautionary measures against static discharges.

### > Precautions for Storage

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/ hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

# Section 8 Exposure Controls/Personal Protection

### > Control Parameters

### **Occupational Exposure Limit Values**

No information available

### **Biological Limit Values**

No information available

### Monitoring Methods

- 1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
- 2 GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard) .

### > Engineering Controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

### > Personal Protection Equipment

Eye Protection Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).

Wear protective gloves (such as butyl rubber), passing the tests according to **Hand Protection** 

EN 374(EU), US F739 or AS/NZS 2161.1 standard.

If exposure limits are exceeded or if irritation or other symptoms are

Respiratory protection experienced, use a full-face respirator with multi-purpose combination (US) or

type AXBEK (EN 14387) respirator cartridges.

Skin and Body

Protection

Wear fire/flame resistant/retardant clothing and antistatic boots.

#### Section 9 **Physical and Chemical Properties**

Appearance: White powder Odor: No information available

Odor Threshold: No information available pH: No information available

Melting Point/Freezing Point (°C): No information Initial Boiling Point and Boiling Range (°C): No

information available

Flash Point (°C)( Closed Cup): Not applicable Evaporation Rate: Not applicable

Upper/lower explosive limits[%(v/v)]: Upper limit: Flammability: No information available No information available; Lower limit: No information

available

Vapor Pressure (MPa): Not applicable Relative Vapour Density(Air = 1): Not applicable

Relative Density(Water=1): No information Solubility: No information available available

n-Octanol/Water Partition Coefficient: No Auto-Ignition Temperature(°C): No information

information available available Decomposition Temperature (°C): No information

available

Particle characteristics: No information available

Kinematic Viscosity (mm<sup>2</sup>/s): Not applicable

# Section 10 Stability and Reactivity

Reactivity Contact with incompatible substances can cause decomposition or other

chemical reactions.

**Chemical Stability** Stable under proper operation and storage conditions.

Possibility of In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and

Hazardous Reactions release hydrogen.

Conditions to Avoid Incompatible materials, heat, flame and spark.

Incompatible Materials Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal

oxide, acyl halide and metal phosphide.

Hazardous

Under normal conditions of storage and use, hazardous decomposition Decomposition

products should not be produced. products

#### Section 11 **Toxicological Information**

## > Acute Toxicity

020		Was toward and		10024 AUI 12 12 2010 1 12 12 10 1
Component	CAS No.	LD <sub>50</sub> (Oral)	LD <sub>50</sub> (Dermal)	LC <sub>50</sub> (Inhalation, 4h)

1,2-Benzisothia	1,2-Benzisothia 2634-33-5	1020mg/kg(Rat)	No information	No information	
zolin-3-One	2034-33-3	1020Hg/kg(Nat)	available	available	

### > Skin Corrosion/Irritation

Causes skin irritation(Category 2)

## > Serious Eye Damage/Irritation

Causes serious eye damage(Category 1)

### > Skin Sensitization

May cause an allergic skin reaction(Category 1)

## > Respiratory Sensitization

No information available

## > Germ Cell Mutagenicity

No information available

## > Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	2634-33-5	1,2-Benzisothiazolin-3- One	Not Listed	Not Listed
2	7732-18-5	Water	Not Listed	Not Listed

# > Reproductive Toxicity

No information available

## > Reproductive Toxicity (Additional)

No information available

## > STOT-Single Exposure

No information available

## > STOT-Repeated Exposure

No information available

# > Aspiration Hazard

No information available

# Section 12 Ecological Information

## > Acute Aquatic Toxicity

Component CAS No.		Fish	Crustaceans	Algae	
1,2-Benzisothia zolin-3-One	2634-33-5	LC <sub>50</sub> : 10mg/L (96h)(Fish)	EC <sub>so</sub> : 4.4mg/L (48h)	No information available	

# > Chronic Aquatic Toxicity

No information available

> Others

Persistence and Degradability

No information available

**Bioaccumulative** Potential

No information available

**Mobility in Soil** 

No information available

Results of PBT and vPvB Assessment

1,2-Benzisothiazolin-3-One does not meet the criteria for PBT and vPvB

according to Regulation (EC) No 1907/2006, annex XIII.

Water does not meet the criteria for PBT and vPvB according to Regulation (EC)

No 1907/2006, annex XIII.

# Section 13 Disposal Considerations

**Waste Chemicals** 

Before disposal should refer to the relevant national and local laws and

regulation. Recommend the use of incineration disposal.

Contaminated **Packaging** Disposal

Recommendations

Containers may still present chemical hazard when empty. Keep away from hot

and ignition source of fire. Return to supplier for recycling if possible.

Refer to section 13.1 and 13.2.

# Section 14 Transport Information

**Transporting Label** 



Marine pollutant

Yes

**UN Number** 

3077

**UN Proper Shipping** 

Name

**Transport Hazard Class** 

**Transport Subsidiary** 

None

Hazard Class **Packing Group** 

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# Section 15 Regulatory Information

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

## > International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
1,2-Benzisothiazoli n-3-One	<b>√</b>	<b>√</b>	√	<b>√</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>√</b>	<b>V</b>
Water	<b>√</b>	<b>V</b>	<b>√</b>	<b>√</b>	√	<b>√</b>	<b>V</b>	<b>√</b>	×

[EINECS] European Inventory of Existing Commercial Chemical Substances.

United States Toxic Substances Control Act Inventory.
Canadian Domestic Substances List.
China Inventory of Existing Chemical Substances.
New Zealand Inventory of Chemicals.
Philippines Inventory of Chemicals and Chemical Substances.
Existing and Evaluated Chemical Substances.
Australia Inventory of Chemical Substances.
Existing And New Chemical Substances.

### Note

"\" Indicates that the substance included in the regulations

"x" That no data or included in the regulations

## Section 16 Additional Information

Creation Date 2018/03/13
Revision Date 2018/03/13
Reason for Revision -

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### > Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 7th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

