

# SAFETY DATA SHEETS

According to the UN GHS revision 9

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

## SECTION 1: Identification

### 1.1 GHS Product identifier

**Product name** Salicylamide

### 1.2 Other means of identification

**Product number** -

**Other names** Benzamide, 2-hydroxy-; ortho-hydroxybenzamide; 2-hydroxybenzamide

### 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

**Company** Shanghai Baishun Biotechnology Co., Ltd  
**Address** No. 26, Lane 918, Lianye Road, Zhelin Town, Fengxian District, Shanghai, 201400, China  
**Telephone** +86-21-37581181

### 1.5 Emergency phone number

**Emergency phone number** +86-21-37581181

**Service hours** Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT +8 hours).

## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture

Acute toxicity - Category 4, Oral

Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 2

### 2.2 GHS label elements, including precautionary statements

**Pictogram(s)**



**Signal word** Warning

**Hazard statement(s)** H302 Harmful if swallowed  
H411 Toxic to aquatic life with long lasting effects

**Precautionary statement(s)**

|                   |                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Prevention</b> | P264 Wash ... thoroughly after handling.<br>P270 Do not eat, drink or smoke when using this product.<br>P273 Avoid release to the environment.                                            |
| <b>Response</b>   | P301+P317 IF SWALLOWED: Get medical help.<br>P330 Rinse mouth.<br>P391 Collect spillage.                                                                                                  |
| <b>Storage</b>    | none                                                                                                                                                                                      |
| <b>Disposal</b>   | 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

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

| Chemical name | Common names and synonyms | CAS number | EC number | Concentration |
|---------------|---------------------------|------------|-----------|---------------|
| Salicylamide  | Salicylamide              | 65-45-2    | 200-609-3 | 100%          |

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## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

#### If 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

**SYMPTOMS:** Symptoms of exposure to this compound include dizziness, drowsiness, nausea, vomiting, epigastric distress, allergic reactions and blood dyscrasias. It can cause central nervous depression, hypotension and respiratory arrest. This compound may greatly potentiate the hepatic toxicity of acetaminophen. It may also cause hyperpnea, renal failure, prolonged bleeding time, a mild burning pain in the mouth, throat and abdomen, lethargy, tinnitus hearing loss, excitability, delirium, fever, sweating, dehydration, incoordination, restlessness, ecchymoses, coma, convulsions, cyanosis, oliguria, uremia, pulmonary edema, gastric ulcer, weight loss and mental deterioration. Other symptoms may include skin eruptions, headache, difficulty in hearing, dimness of vision, lassitude and hyperventilation. **ACUTE/CHRONIC HAZARDS:** When heated to decomposition this compound emits toxic fumes of carbon monoxide, carbon dioxide and nitrogen oxides. (NTP, 1992)

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

#### Minimum/Potential Fatal Human Dose

3. 3= moderately toxic: probable oral lethal dose (human) 0.5-5 g/kg, between 1 ounce and 1 pint (or 1 lb) for 70 kg person (150 lb).

#### Absorption, Distribution and Excretion

When...given orally...it is absorbed and excreted so rapidly that high plasma levels are not obtained. it diffuses quickly into the various body tissues and into a much greater apparent volume of body water... animal studies show...diffusion rapidly into the brain.

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

### **5.1 Suitable extinguishing media**

Fires involving this material can be controlled with a dry chemical, carbon dioxide or Halon extinguisher. A water spray may also be used. (NTP, 1992)

### **5.2 Specific hazards arising from the chemical**

Flash point data for this chemical are not available; however, it is probably combustible. (NTP, 1992)

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

Wear self-contained breathing apparatus for firefighting if necessary.

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## **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.

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## **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**

Salicylamide preparations generally should be stored in well-closed containers at a temperature less than 40 deg C, preferably between 15 and 30 deg C.

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## **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/flamm 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

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## SECTION 9: Physical and chemical properties and safety characteristics

|                                                          |                                                                                                                                                                                                      |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Physical state                                           | Solid. Crystalline.                                                                                                                                                                                  |
| Colour                                                   | White.                                                                                                                                                                                               |
| Odour                                                    | no data available                                                                                                                                                                                    |
| Melting point/freezing point                             | 138.7 °C. Atm. press.:Ca. 1 atm. Remarks:±0.5°C, melting point onset; ambient atmospheric pressure.;140 °C. Atm. press.:Ca. 1 atm. Remarks:±0.4°C, melting point peak; ambient atmospheric pressure. |
| Boiling point or initial boiling point and boiling range | 275.2 °C. Atm. press.:98.7 kPa.                                                                                                                                                                      |
| Flammability                                             | no data available                                                                                                                                                                                    |
| Lower and upper explosion limit/flammability limit       | no data available                                                                                                                                                                                    |
| Flash point                                              | 80°C(lit.)                                                                                                                                                                                           |
| Auto-ignition temperature                                | no data available                                                                                                                                                                                    |
| Decomposition temperature                                | no data available                                                                                                                                                                                    |
| pH                                                       | 5.5. Remarks:Saturated aqueous solution.                                                                                                                                                             |
| Kinematic viscosity                                      | no data available                                                                                                                                                                                    |
| Solubility                                               | less than 1 mg/mL at 68° F (NTP, 1992)                                                                                                                                                               |
| Partition coefficient n-octanol/water                    | log Pow = 1.31.                                                                                                                                                                                      |
| Vapour pressure                                          | 0.002 Pa. Temperature:25 °C. Remarks:Interpolated value.;0.001 Pa. Temperature:20 °C. Remarks:Measured value.;0.004 Pa. Temperature:30 °C. Remarks:Measured value.                                   |
| Density and/or relative density                          | 1.32 g/cm <sup>3</sup> .;1.308 g/cm <sup>3</sup> .                                                                                                                                                   |
| Relative vapour density                                  | no data available                                                                                                                                                                                    |
| Particle characteristics                                 | no data available                                                                                                                                                                                    |

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

It darkens on exposure to air. (NTP, 1992). Insoluble in water.

### 10.2 Chemical stability

Develops slight pink color on exposure to light, therefore store in light resistant containers

### 10.3 Possibility of hazardous reactions

2-HYDROXYBENZAMIDE is an amide. Amides/imides react with azo and diazo compounds to generate toxic gases. Flammable gases are formed by the reaction of organic amides/imides with strong reducing agents. Amides are very weak bases (weaker than water). Imides are less basic yet and in fact react with strong bases to form salts. That is, they can react as acids. Mixing amides with dehydrating agents such as P<sub>2</sub>O<sub>5</sub> or SOCl<sub>2</sub> generates the corresponding nitrile. The combustion of these compounds generates mixed oxides of nitrogen (NO<sub>x</sub>). This chemical may be sensitive to prolonged exposure to light. (NTP, 1992)

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

no data available

### 10.6 Hazardous decomposition products

Dangerous; when heated to decomposition, it emits highly toxic fumes of /nitrogen oxides/.

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## SECTION 11: Toxicological information

### Acute toxicity

- Oral: LD<sub>50</sub> - mouse (male) - 1 200 mg/kg bw. Remarks:Fasted animals, observation of mortality at 2, 4, and 7 days.
- 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

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## SECTION 12: Ecological information

### 12.1 Toxicity

- Toxicity to fish: LC50 - Pimephales promelas - 101 mg/L - 96 h.
- Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna - 37 mg/L - 48 h.
- Toxicity to algae: EC50 - Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) - 0.29 mg/L - 72 h.
- Toxicity to microorganisms: IC50 - Tetrahymena pyriformis - 1.74 mg/L - 40 h.

## 12.2 Persistence and degradability

no data available

## 12.3 Bioaccumulative potential

An estimated BCF value of 5.5 was calculated for salicylamide(SRC), using an experimental log Kow of 1.28(1) and a recommended regression-derived equation(2). According to a recommended classification scheme(3), this BCF value suggests that bioconcentration in aquatic organisms will not be an important fate process(SRC).

## 12.4 Mobility in soil

The Koc of salicylamide is estimated as approximately 118(SRC), using an experimental log Kow of 1.28(1) and a regression-derived equation(2,SRC). According to a recommended classification scheme(3), this estimated Koc value suggests that salicylamide has high mobility in soil(SRC).

## 12.5 Other adverse effects

no data available

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# 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.

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# SECTION 14: Transport information

## 14.1 UN Number

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

## 14.2 UN Proper Shipping Name

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

## 14.3 Transport hazard class(es)

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

## 14.4 Packing group, if applicable

ADR/RID: Not dangerous goods. (For reference only,

IMDG: Not dangerous goods. (For reference only, please

IATA: Not dangerous goods. (For reference only, please

please check.)

check.)

check.)

## 14.5 Environmental hazards

ADR/RID: Yes

IMDG: Yes

IATA: Yes

## 14.6 Special precautions for user

no data available

## 14.7 Transport in bulk according to IMO instruments

no data available

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# 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   |
|--------------------------------------------------------------------------|---------------------------|------------|-------------|
| Salicylamide                                                             | Salicylamide              | 65-45-2    | 200-609-3   |
| 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)                               |                           |            | Listed.     |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS)       |                           |            | Listed.     |
| Vietnam National Chemical Inventory                                      |                           |            | Listed.     |
| Chinese Chemical Inventory of Existing Chemical Substances (China IECSC) |                           |            | Listed.     |
| Korea Existing Chemicals List (KECL)                                     |                           |            | Not Listed. |

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# SECTION 16: Other information

## Information on revision

Creation Date July 15, 2019

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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](http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en)
- CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>
- ChemIDplus, 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/>

**Any questions regarding this SDS, Please send your inquiry to [sds@xixisys.com](mailto:sds@xixisys.com)**

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