

Chemical Safety Technical Data Sheet

Product Name:Salicylic Acid

Developed in accordance with GB/T 16483 and GB/T 17519

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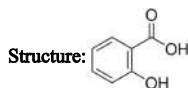
Edition : A

Part 1: Identification of Chemicals and Enterprises

Chemical name in Chinese:Salicylic acid; O-hydroxybenzoic acid; 2-hydroxybenzoic acid

Chemical name in English:salicylic acid; o-hydroxybenzoic acid

Molecular formula:C₇H₆O₃ **Relative molecular mass:**138.12



Recommended and restricted uses of the chemical:This substance serves as a key raw material for fine chemicals such as pharmaceuticals, fragrances, dyes, pesticides, and rubber additives. It is widely utilized in antipyretic analgesics, direct dyes, insecticides, fragrance enhancers, disinfectants, and preservatives.

Part II Overview of Hazards

Summary of emergency conditions:Ingestion is hazardous, causing severe eye injury and suspected harm to fertility or the fetus.

GHS Hazard Category:

Acute toxicity – Oral:Category 4 **Severe eye injury/eye irritation:**Category 1 **Reproductive toxicity:**Category 2

Tag Elements:

figurative graph :



Warning phrase:Hazard

Hazard Description:Ingestion is harmful, causing severe eye damage and suspected harm to fertility or the fetus.

Protection Explanation:

【 preventive measure 】

- Operate only after receiving specific instructions. Do not perform any operations before reading and understanding all safety precautions.
- Avoid contact with eyes and skin; thoroughly rinse after use.
- No eating, drinking, or smoking is permitted in the workplace.
- Wear protective gloves, protective clothing, protective goggles, and a face shield.

[Accident Response]

- Eye contact: Rinse carefully with water for several minutes. If contact lenses are worn and can be easily removed, remove them and continue rinsing. Seek medical attention.
- Administration: Rinse mouth. Immediately contact the Poison Control Center or seek medical attention.
- Seek medical attention if you come into contact with the substance or have concerns.

【 safe storage 】

- Lock and store securely.

[Disposal of Waste]

·This product, its contents, and the container shall be disposed of in accordance with national and local regulations.

Physical and chemical hazards:No data available.

Health hazards:Harmful to swallowing; causes severe eye damage; suspected to harm fertility or the fetus.

Environmental hazards:No data available.

Part III: Composition/Composition Information

√matter		Mixture
Component	Concentration	CAS No.
Ortho-hydroxybenzoic acid	≥99 5%	69-72-7

Part IV Emergency Management Measures

Inhalation:Immediately remove the individual from the area to fresh air. Keep the airway clear. If breathing is difficult, administer oxygen. In case of respiratory or cardiac arrest, perform cardiopulmonary resuscitation (CPR) immediately. Seek medical attention.

Skin contact:Immediately remove contaminated clothing and thoroughly rinse the skin with plenty of running water. Seek medical attention.

Eye contact:Immediately open the eyelids and rinse thoroughly with running water or saline solution. Seek medical attention.

Ingestion:Rinse the mouth with water. Seek medical attention.

Advice for rescuers:Use personal protective equipment as needed.

Special note for physicians:Provide symptomatic treatment.

Part V Fire Safety Measures

Fire extinguishing agents:Use water mist, foam, carbon dioxide, or dry powder to extinguish the fire.

Special risk:No data available.

Fire Extinguishing Precautions and Protective Measures:Firefighters must wear respirators and full-body fire-resistant/anti-toxic clothing, and approach the fire from upwind. Move containers to an open area whenever possible. Spray water to keep containers cool until the fire is fully extinguished. Evacuate immediately if the container suddenly emits abnormal sounds or exhibits unusual behavior.

Part VI: Emergency Response to Leaks

Protective measures, protective equipment, and emergency response procedures for personnel:Isolate the contaminated leakage area and restrict access. Eliminate all ignition sources. Emergency responders are advised to wear dust masks, protective clothing, and oil-resistant rubber gloves. Do not handle ruptured containers or leaked materials before wearing appropriate protective gear. Try to cut off the source of the leak whenever possible.

Environmental protection measures:Prevent leaks from entering water bodies, sewers, basements, or confined spaces.

Methods for containing and removing leaked chemicals, as well as the disposal materials used:Collect the spill using a clean shovel and place it in a clean, dry container with a loose lid; then move the container away from the spill area.

Part VII: Handling, Storage and Disposal

Operating Precautions:Operators must undergo specialized training and strictly adhere to operating procedures. It is recommended that operators wear self-suction filtering dust masks, chemical safety goggles, protective clothing against toxic substance penetration, and rubber gloves. Keep away from sources of ignition and heat; smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. Prevent dust generation. Avoid contact with oxidizers and alkalis. Handle with care during transportation to prevent damage to packaging and containers. Equip with appropriate types and quantities of fire extinguishers and leakage emergency response equipment. Empty containers may contain residual hazardous substances.

Storage Precautions:Store in a well-ventilated warehouse. Keep containers tightly sealed. Keep away from sources of ignition and heat. Store separately from oxidizers, alkalis, etc.; avoid mixing. Provide adequate fire-fighting equipment of appropriate type and quantity. The storage area should be equipped with suitable materials to contain leaks.

Part VIII Contact Control/Personal Protection

Occupational exposure limits:China: No standards established.

United States (ACGIH): No standards have been established.

Biological contact limit:No standard established.

Monitoring methods:Methods for determining toxic substances in the air: No standards have been established. Methods for biological monitoring tests: No standards have been established.

Engineering controls:Provide safe shower and eye-wash facilities.

Personal Protective Equipment:

Respiratory protection:When airborne dust concentrations exceed permissible limits, a self-suction filtering respirator must be worn. During emergency rescue or evacuation operations, an air respirator should be used.

Eye protection:Wear chemical safety goggles.

Skin and body protection:Wear protective clothing resistant to toxic substance penetration.

Hand protection:Wear rubber gloves.

Part Nine Physical and Chemical Properties	
Appearance and characteristics:White needle-like crystals or fibrous crystalline powder, odorless, photosensitive.	Melting point (°C):157–161
pH value:No data available	
Boiling point (°C):211	Relative density (water = 1):1.443
Relative vapor density (air = 1):No data	Saturation vapor pressure (kPa):No data
Combustion heat (kJ/mol):No data	Critical temperature (°C):No data
Critical pressure (MPa):No data	Octanol/water partition coefficient:No data
Flash point (°C):157	Self-ignition temperature (°C):No data
Lower explosive limit (%):1.1	Explosion Limit (%):No data
Decomposition temperature (°C):No data	Viscosity (mPa·s):No data
Solubility:Soluble in water; readily soluble in ethanol, ether, and chloroform.	

Part 10 Stability and Reactivity

Stability:Stable.

Adverse reactions:No data available.

Conditions to avoid exposure:Light.

Contraindications:strong oxidizing agents, strong bases.

Hazardous decomposition products:No data available.

Part XI Toxicological Information

Acute toxicity:LD₅₀:891 mg/kg (oral administration in rats);> 2000 mg/kg (percutaneous administration in rats).

Skin irritation or corrosion:non-avaible 。

Eye irritation or corrosion:non-avaible 。

Respiratory or skin allergy:non-avaible 。

Mutability of germ cells:non-avaible 。

Carcinogenicity:No data available.

Reproductive toxicity:No data available.

Specific target organ system toxicity – single exposure:No data available.

Specific target organ system toxicity – repeated exposure:No data available.

Inhalation hazards:No data available.

Part XII Ecological Information

Ecotoxicity:No Data Available.

Durability and Degradability:

Biodegradability: No data available.

Non-biodegradability: No data available.

Potential bioaccumulation:No data available.

Mobility in soil:No data available.

Part XIII Disposal of waste chemicals:Remaining and non-recyclable products shall be disposed of by licensed companies.

Contaminated packaging:Disposal shall comply with national and local regulations.

Disposal precautions:Refer to relevant national and local regulations before disposal.

Part XIV Transport Information

United Nations Dangerous Goods Number (UN Number):No information available

United Nations Transport Name:No information available

UN hazard class:No information

Packaging Category:No information

Packaging Logo:No information

Marine pollutants:No

Transportation Precautions:Before transportation, verify that the packaging container is intact and properly sealed. During transit, ensure the container remains leak-proof, stable, free from collapse or falling, and undamaged. Strictly prohibit mixing with oxidizers, alkalis, food-grade chemicals, or similar substances during transport. Transport vehicles must be equipped with appropriate types and quantities of firefighting equipment and leakage emergency response devices. Protect the cargo from direct sunlight, rain, and high temperatures during transit. For road transport, follow designated routes as required.

Part 15: Regulatory Information

The following laws, regulations, rules, and standards contain corresponding provisions for the management of this chemical substance.

Law of the People's Republic of China on the Prevention and Treatment of Occupational Diseases:Classification and catalog of occupational diseases: Not listed.

Regulations on the Safety Management of Hazardous Chemicals:List of hazardous chemicals: Not included. List of explosive-prone hazardous chemicals: Not included. List of key hazardous chemicals under supervision: Not included. GB18218-2018 "Identification of Major Hazard Sources for Hazardous Chemicals" (Table 1): Not included.

Regulations on Labor Protection in Workplaces Where Toxic Substances Are Used:List of highly toxic substances: Not included.

Regulations on the Management of Chemicals Susceptible to Drug Manufacturing:Classification and list of types of chemicals susceptible to drug manufacturing: Not included.

International Conventions:Stockholm Convention: Not included; Rotterdam Convention: Not included; Montreal Protocol: Not included.

Part 16: Other Information

Writing and revision information:This is the first version.

References:Safety Culture Network

Disclaimer:The information in this SDS applies solely to the specified product. Unless otherwise stated, it does not apply to mixtures of this product with other substances. This SDS provides safety information only for properly trained users of the product. Users must independently assess the suitability of this SDS under specific usage conditions. The authors of this SDS shall not be liable for any injuries resulting from its use in exceptional circumstances.