

Safety data sheet for chemical products, SDS

Product name: 184

Initial date of preparation: 2013/09/30

The revision date: 2026/1/1

Section 1 - Chemical and corporate identity

Product's information

Chemical name: 1-Hydroxy-Cyclohexylphenyl-Ketone

Supplier's information

Supplier: Guangzhou BAWO New Material Science Co.,Ltd

Tel: 86-020-31074363

Fax: 86-020-31074309

Section 2 - Hazards identification

Emergency Overview:

Product appearance is white powder and no specific hazard information available.

GHS of the substance or mixture

GHS risk category: —

GHS label elements, hazard statements and precautionary statement

GHS label elements:

Pictogram: —

Signal word: —

Hazard Statement: —

Section 3 - Composition/composition information

Component	Concentration or concentration range [% quality score]	CAS NO.
1-Hydroxy-Cyclohexylphenyl-Ketone	≥ 99	947-19-3

Section 4 - First aid measures

General suggestion:

In case of emergency, seek immediate medical attention and provide the Safety Data Sheet(SDS) to the attending physician.



Eye contact: If the product gets into the eyes, rinse immediately with plenty of water for at least 15 minutes.

Skin contact: Immediately wash with plenty of suds. If irritation persists, seek medical attention immediately.

Inhalation: If breathing becomes difficult after inhaling dust, move the person to fresh air immediately and seek medical attention.

Intake: Rinse mouth, then drink plenty of water.

Protection for first aid responders: Ensure that medical personnel are familiar with the material involved, take protective measures, and prevent the spread of contamination.

Advice to physician:

Ensure that healthcare personnel are aware of the substance involved. Take precautions to protect themselves and prevent contamination from spreading. Treat symptomatically.

Section 5 - Fire control measures

Suitable extinguishing agent: 1.Dry powder 2.Bubble

Unsuitable extinguishing agent: Carbon dioxide (CO₂)

Fire precautions and protective measures:

Self-contained breathing apparatus and full protective clothing must be worn.

Special hazards:

Under fire conditions, toxic gases may be released.

Section 6 - Accidental release measure

Work personnel protective measures, protective equipment and emergency disposal procedures:

Wear appropriate NIOSH/MSHA-approved respiratory protection, anti-static clothing, and oil-resistant rubber gloves. Avoid inhaling dust. Do not touch or walk through spilled material. Ensure adequate ventilation. Evacuate non-essential personnel to a safe area located crosswind or upwind.

Environmental precautions:

Prevent spilled material from entering sewers, drainage systems, or soil.

Methods and materials for containment and clean up:

Sweep up completely. Dispose of in accordance with local regulations. Clean the affected area. Avoid creating dust.

Section 7 - Handling and storage

Operational considerations:



1. Use personal protective equipment.
2. Avoid inhalation of vapors and contact with eyes, skin, and clothing.
3. Ensure adequate ventilation in the workplace.

Storage precautions:

1. Store in sealed containers after use, in a dry, well-ventilated area.
2. Protect from light exposure.
3. Avoid sources of ignition, heat, sparks, and open flames.
4. Recommended storage temperature: $\leq 35^{\circ}\text{C}$.

Section 8 - Exposure controls and personal protection**Occupational exposure limits:**

No exposure guidelines are established for this product by OSHA or AGS.

Biological limites: No available data.

Engineering controls:

1. Ensure adequate ventilation, especially in confined areas.
2. Ensure that eyewash stations and safety showers are close to the work area.
3. Explosion prevention — use explosion-proof electrical equipment, ventilation, lighting, and machinery.

Personal protective equipment:

1. Respiratory protection: Wear a NIOSH-approved mask or respirator.
2. Eye protection: Wear appropriate safety goggles.
3. Hand protection: Recommended to wear protective gloves made of nitrile polymer.
4. Skin and body protection: Wear protective clothing and boots that protect arms, legs, and body.

Section 9 - Physical and chemical properties

Appearance and shape:	White crystalline powder
pH:	5.7 (1% suspended in water)
Melting point ($^{\circ}\text{C}$):	46 - 50°C (101.3 kPa)
The boiling point ($^{\circ}\text{C}$):	316.1°C (101.3 kPa)
Flash point ($^{\circ}\text{C}$):	164°C (1013 hPa) (Closed loop)
Upper Explosive limit (% volume fraction):	No information
Lower explosion limit(%volume fraction):	No information
Saturated vapor pressure (kPa):	0.02Pa (20°C)
Vapor density:	No information



Relative density:	1182kg/m ³ (20°C) (density)
Solubility:	442mg/L (23°C)
Evaporation rate:	No information
Octanol-water partition coefficient:	Log Kow(Log Pow)=2.81 (25°C)
Auto-ignition temperature:	424°C (1013 hPa)
Decomposition temperature (°C):	No information
Flammability (solid, gas):	Nonflammable
Particle size:	MMD=549µm
Oxidizing property:	Oxidizes:No
Surface tension:	60.2mN/m (at 20°C, 900000mg/L)
Acid dissociation constant in water(pKa):	15.7 (20°C)

Section 10 - Stability and reactivity

Stability: Stable under normal conditions of use and storage.

Conditions to avoid: Above 35°C (to maintain product technical properties) and incompatible materials.

Incompatible materials: Strong acids, strong bases, strong oxidizers.

Hazardous decomposition products: Under fire conditions, may decompose to produce carbon oxides and toxic gases/vapors.

Section 11 - Toxicological information:

Acute oral toxicity: LD50-(rat) -> 2500 mg/kg

Acute dermal toxicity: LD50-(rat) -> 5000 mg/kg

Acute inhalation toxicity: LC50-(rat) -> 1000 mg/m³(4h)

Skin irritation or corrosion: Not classified

Eye irritation or corrosion: Not classified

Respiratory or skin irritation: Not classified

The reproductive cells are mutagenic: Not classified

Carcinogenicity: This substance is not classified as a carcinogen by IARC, NTP, OSHA, or ACGIH at concentrations greater than 0.1%.

Reproductive toxicity: Not classified

Specific target organ systemic toxicity - single exposure: Not classified

Specific target organ systemic toxicity - repeated exposure: Not classified

Inhalation hazards: Not classified



Section 12 - Ecological information

Acute toxicity:

Toxicity to fish: LC50(fish,96h) -24 mg/L

Toxicity to invertebrates: EC50(water flea,48h) -53.9 mg/L

Toxicity to algae: EC50(algae,72h) -14.4 mg/L

Chronic toxicity:

Toxicity to fish: NOEC(fish) -No information

Toxicity to invertebrates: NOEC(water flea) -No information

Toxicity to algae: EC51(algae,72h) -2.51 mg/L

Persistence and degradability: Readily biodegradable.

Bioaccumulative potential: Not bioaccumulative.

Mobility in soil: Expected not to adsorb to solid soil phases.

PBT and vPvB assessment results: This substance is not considered to be PBT or vPvB.

Other adverse effects: No data available.

Section 13 - Disposal considerations

Waste chemicals:

Recycle if possible. If recycling is not feasible, dispose of by incineration in appropriate facilities. Do not dispose of this product by landfill or discharge into sewers. Collection and recycling should be handled by qualified disposal companies, in accordance with national and local regulations.

Contaminated packaging:

Return to the manufacturer or dispose of in accordance with national and local regulations.

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

Section 14 - Transportation information

UN number: Not classified as dangerous goods.

United nations transport name: —

United nations classification of hazards: —

Categories of packing: —

Marine pollutant(yes/no):No

Transport precautions:

1. It is strictly prohibited to transport mixed with oxidizers or food-grade chemicals.



2. Protect from direct sunlight and rain during transport.
3. During transit stops, keep away from sources of ignition and heat.
4. Transport vehicles should be equipped with appropriate types and quantities of fire-fighting equipment and emergency spill response equipment.

Section 15 - Regulatory information

The following laws, regulations, and standards govern the management of this chemical:

Regulations on the Safe Management of Hazardous Chemicals

Hazardous Chemical Catalog: Not listed.

Regulations on Labor Protection in Workplaces Using Toxic Substances

Highly Toxic Substances Catalog: Not listed.

Inventory status in existing national chemical inventories:

National Hazardous Waste List(China): Not listed

Strictly Restricted Toxic Chemicals for Import and Export in China: Not listed

Controlled Import and Export List in China: Not listed

List of Additives Used in Food Containers and Packaging Materials(China):Not listed

Measures for the Environmental Management of New Chemical Substances:

China Existing Chemical Substances Inventory:Listed

Inventory status in other countries/regions:

USA(TSCA):Listed

Korea(KECL):Listed

Australia(AICS):Listed

Canada(CEPA):Listed

Europe(ELINCS/EINECS):Listed

Japan(ENCS):Listed

Section 16 - Other information

Write and edit information:

This safety data sheet is prepared in accordance with GB/T17519, based on the information available to our company.

The revision date: 2026/1/1



Important disclaimer:

The data of the company is currently known data, according to the product under normal use, list must pay attention to matters, suggest the user to enable before, should read this data, help to the safe use and correct waste management. Please contact business technical staff if you have any doubts. But this data does not ensure that extended to processed products, whether have you made with materials processing, the user should be aimed at its product testing or certification to fully comply with relevant laws and regulations and requirements of the client, especially special purposes, such as the application of medicine, in case of any dispute and should not belong to the company's liability.

Data maker: Guangzhou BAWO New Material Science Co.,Ltd

