Safety Data Sheet MSDS / SDS



MF:C₁₀H₁₂O₂

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 4-(4-hydroxyphenyl)butan-2-one

1.2 Other means of identification

Product number -

Other names Oxyphenalon; 4-hydroxy benzyl acetone; Raspberry keton

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 Jiangxi LinQ Spices Co.,Ltd.

Address Building15#,Xinghai Gardon,TianLi Square,QingYuan District,

Ji'An City, Jiang Xi Province

Telephone (+86)0796-8287629

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Not classified.

2.2 GHS label elements, including precautionary statements

Pictogram(s)No symbol.Signal wordNo signal word

Hazard statement(s) none

Precautionary statement(s)

PreventionnoneResponsenoneStoragenoneDisposalnone

2.3 Other hazards which do not result in classification

no data available

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
4-(4-hydroxyphenyl)butan-2- one	4-(4-hydroxyphenyl)butan-2- one	5471-51-2	226-806-4	100%

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

no data available

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

Immediate first aid: Ensure that adequate decontamination has been carried out. If patient is not breathing, start artificial respiration, preferably with a demand valve resuscitator, bag-valve-mask device, or pocket mask, as trained. Perform CPR if necessary. Immediately flush contaminated eyes with gently flowing water. Do not induce vomiting. If vomiting occurs, lean patient forward or place on the left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Keep patient quiet and maintain normal body temperature. Obtain medical attention. Poisons A and B

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Special protective equipment for firefighters: Wear self contained breathing apparatus for fire fighting if necessary

5.2 Specific hazards arising from the chemical

no data available

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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

Keep container tightly closed in a dry and well-ventilated place.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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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/flame 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

SECTION 9: Physical and chemical properties and safety characteristics

Physical state Solid. Crystalline.

Colour White.

Odour Sweet fruity, warm odor resembling raspberry preserve

Melting point/freezing point Ca. 83 °C.

Boiling point or initial boiling 117°C/40mmHg(lit.)

point and boiling range

Flammability no data available Lower and upper explosion no data available

limit/flammability limit

Flash point 122°C(lit.)

Auto-ignition temperature Remarks: No self-ignition occurred up to the melting point of the test item.

Decomposition temperatureno data availablepHno data availableKinematic viscosityno data available

Solubility In water, 25,100 mg/L at 25 deg C (est)

Partition coefficient n- Pow = 23.397. Temperature:20 °C. Remarks:PH is unknown.;log Pow =

octanol/water 1.33. Temperature:20 °C. Remarks:PH is unknown.

Vapour pressure Ca. 0.03 kPa. Temperature:20 °C.;Ca. 0.08 kPa. Temperature:40 °C.;Ca.

0.26 kPa. Temperature:50 °C.

Density and/or relative

density

1.167 g/cm³. Temperature:20 °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

Flammable liquid

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Materials to avoid: Strong oxidizing agents

10.6 Hazardous decomposition products

When heated to decomposition it emits acrid smoke and irritating fumes.

SECTION 11: Toxicological information

Acute toxicity

- Oral: LD50 rat (female) > 2000 mg/kg bw.
- Inhalation: no data available
- Dermal: LD50 rat (male/female) \geq 2 000 mg/kg bw.

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

SECTION 12: Ecological information

12.1 Toxicity

- Toxicity to fish: LC50 75.746 mg/L 96 h.
- Toxicity to daphnia and other aquatic invertebrates: EC50 Daphnia magna < 100 mg/L 48 h.
- Toxicity to algae: EC50 101.054 mg/L 96 h.
- Toxicity to microorganisms: no data available

12.2 Persistence and degradability

AEROBIC: Data specific to the environmental biodegradation of raspberry ketone were not available(SRC, 2014). However, raspberry ketone is a mono-substituted phenol with a structure suggesting that it may be biodegradable(SRC) in the environment(1). For example, phenol and p-ethylphenol, present at 100 mg/L, reached 85-90% of their theoretical BODs in 4 weeks using an activated sludge inoculum at 30 mg/L in the Japanese MITI test which classified them as readily biodegradable(2).

12.3 Bioaccumulative potential

An estimated BCF of 4.4 was calculated in fish for raspberry ketone(SRC), using an estimated log Kow of 1.48(1) and a regression-derived equation(1). According to a classification scheme(2), this BCF suggests the potential for bioconcentration in aquatic organisms is low(SRC).

12.4 Mobility in soil

Using a structure estimation method based on molecular connectivity indices(1), the Koc of raspberry ketone can be estimated to be 217(SRC). According to a classification scheme(2), this estimated Koc value



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suggests that raspberry ketone is expected to have moderate mobility in soil.

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

14.2 UN Proper Shipping Name

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

14.3 Transport hazard class(es)

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

14.4 Packing group, if applicable

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

14.5 Environmental hazards

ADR/RID: No IMDG: No IATA: No

14.6 Special precautions for user

no data available

14.7 Transport in bulk according to IMO instruments

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
4-(4-hydroxyphenyl)butan-2-one	4-(4-hydroxyphenyl)butan-2-one	5471-51-2	226-806-4
European Inventory of Existing C	Listed.		
EC Inventory	Listed.		
United States Toxic Substances Co	Listed.		
China Catalog of Hazardous chen	Not Listed.		
New Zealand Inventory of Chemic	Listed.		
Philippines Inventory of Chemica	Listed.		
Vietnam National Chemical Inven	Listed.		
Chinese Chemical Inventory of Ex	Listed.		
Korea Existing Chemicals List (K	Listed.		

Information on revision

Creation Date July 15, 2019 **Revision Date** July 15, 2019

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
- 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/

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