SAFETY DATA SHEET

Version: v1
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SECTION 1:Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name	: 4'-Hydroxyacetophenone
Product Number	: H102969
Brand	: aladdin
CAS-No.	: 99-93-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	: Laboratory chemicals,Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	: Shanghai Aladdin Biochemical Tech Co.,Ltd
Address	: 36 Xinjinqiao Road, Shanghai
Telephone	: 400-620-6333
Fax	: no data available

1.4 Emergency telephone number

Emergency Phone	: 0532-83889090

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, oral (Class 5), H303

Severe eye injury/eye irritation (Category 2A), H319

Acute (short-term) aquatic hazard (Category 3), H402

Long term aquatic hazards (Category 3), H412

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word	Warning
Hazard statement(s)	
H303	May be harmful if swallowed
H319	Causes serious eye irritation
H412	Harmful to aquatic life with long lasting effects
Precautionary statement(s)	
P264	Wash hands [and …] thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P312	Call a POISON CENTER or doctor/... if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P337+P313	IF eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	: 4-Acetophenol；4-Acetylphenol；4-Hydroxyphenyl Methyl Ketone
Formula	: C8H8O2
Molecular weight	: 136.15
CAS No.	: 99-93-4
EC-NO.	: no data available

Component	Classification	Concentration
4'-Hydroxyacetophenone		
	no data available	98%

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

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.

In case of skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

In case of eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

If swallowed

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 and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

Oxocarbon Flammable Vapor is heavier than air, so it can diffuse along the ground. Under rapid heating, it forms an explosive mixture with air When a fire occurs, it may cause the production of hazardous gases or vapors

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

no data available

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.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Operators should be specially trained and strictly abide by the operating procedures. Operation and disposal should be carried out in a place with local ventilation or general ventilation facilities. Avoid eye and skin contact and avoid breathing vapor. See Section 8 for personal protective measures. Keep away from fire and heat sources, and smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. If canning is required, the flow rate should be controlled, and there should be a grounding device to prevent the accumulation of static electricity. Avoid contact with incompatible substances such as oxidizing agents (see section 10 for incompatible substances). When handling, it should be lightly loaded and unloaded to prevent damage to packaging and containers. Empty containers may be harmful residues. Wash hands after use and prohibit eating or drinking in the workplace. Equipped with the corresponding variety and quantity of fire fighting equipment and leakage emer

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool and ventilated warehouse. Argon filled storage

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection,use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU).

Control of environmental exposure

If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	form: Solid, Powder, or Crystals color: White to Off-White
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	109-111°C
f) Initial boiling point and boiling range	147-148°C
g) Flash point	166℃
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	1.109
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available

s) Explosive properties N	no data available
t) Oxidizing properties N	no data available

9.2 Other safety information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Intense reactions may occur with it: Strong oxidant Acids and alkalis Acyl chloride Acid anhydride

10.4 Conditions to avoid

Moisture proof. Strong heating

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 oral - rats - males and females -2240 mg/kg
(US EPA)
Inhalation: No data available
LD50 transdermal - rabbit - male and female ->2000 mg/kg
(US EPA)

Skin corrosion/irritation

Skin - Rabbit Result: No irritation (US EPA)

Serious eye damage/eye irritation

Eye Rabbit Result: Irritating (US EPA) Eye Rabbit Result: Irritating to the eyes.

Respiratory or skin sensitisation

Sensitivity test: - Guinea pigs Result: Negative (US EPA)

Germ cell mutagenicity

Test type: Extraordinary DNA synthesis test Test system: Chinese hamster ovary cells Metabolic activation: with or

without metabolic activation effect Method: US-EPA Result: Negative Test type: Ames test Testing system: Salmonella Typhimurium Metabolic activation: with or without metabolic activation effect Result: Negative Remarks: (ECHA) Test type: micronucleus test Species: Mice Cell type: Bone marrow Route of infection: intraperitoneal Method: US-EPA Test type: micronucleus test Species: Mice Route of infection: intraperitoneal Result: Negative

Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

Repeated toxicity - Rat - Male and Female - Oral -90 days - No harmful effects observed -45 mg/kg

Note: Subchronic toxicity

Repeated toxicity - Rat - Male and Female - Oral -28 hours - No harmful effects observed -600 mg/kg

Note: Subacute toxicity

Registration of toxic effects of chemical substances: AM8750000

It depends on the time and intensity of contact. The degree ranges from mild irritation to severe tissue damage.

To our knowledge, this chemical, physical, and toxic property has not been fully studied.

The nature of the hazard cannot be ruled out, but it should not occur under proper handling

Operate in accordance with good industrial hygiene and safety practices.

SECTION 12: Ecological information

12.1 Toxicity

Static toxicity test for fish LC50- Oncorhynchus mykiss (rainbow trout) -25 mg/l -96 hours

(US EPA)

Toxicity to Daphnia magna and other aquatic Invertebrate

Static test EC50- Daphnia magna -50 mg/l -48 hours

(US EPA)

Remarks: (Hommel)

(4 '- hydroxy Acetophenone)

Static toxicity test on algae ErC50- Pseudokirchniella subcapitata (green algae) -11.8 mg/l -72 hours

(US EPA)

Static test NOEC - Pseudokirchniella subcapitata (green algae) -2.8 mg/l -72 hours

(US EPA)

Static toxicity test for bacteria EC20- Activated sludge -130 mg/l -3 hours

(OECD Testing Guidelines 209)

12.2 Persistence and degradability

Aerobic - Exposure time 28 days Result: 93.2% - rapidly biodegradable. (OECD Test Guide 301B)

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

SECTION 13:

13.1 Disposal considerations

Product

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: no data available | Packing group: no data available | Class: no data available

Proper shipping name: no data available | Reportable Quantity(RQ): no data available | Poison Inhalation Hazard: no data available

Environmental Hazards: no data available

IMDG

UN number: no data available | Packing group: no data available | EMS-No: no data available

Proper shipping name: no data available

IATA

UN number: no data available | Packing group: no data available | Class: no data available

Proper shipping name: no data available

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

SECTION 16: Other information

Further information

 The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Aladdin Co. Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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