



## 1. Identification of the chemical and supplier

### 1.1 Product identifier

Product name	JRCure 1173
Synonyms	2-hydroxy-2-methylpropiophenone
CAS NO.	7473-98-5
EC NO.	231-272-0
Molecular formula	C <sub>10</sub> H <sub>12</sub> O <sub>2</sub>

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

Relevant identified uses	Used for Photoinitiator etc.
Uses advised against	No information available.

### 1.3 Details of the supplier of the Safety Data Sheet

Name of the company	TIANJIN JIURI NEW MATERIALS CO., LTD
Address of the company	C-5/6, Vision Hill, No.1 Gonghua Road, Huayuan Hi-tech Park, Tianjin, China.
Postcode	300384
Telephone number	+86-22-23811185
Fax number	+86-22-87186899
E-mail address	Carrie Wu (rui.wu@jiurichem.com)

### 1.4 Emergency phone number


Emergency phone Number	+86-22-58330700
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## 2. Hazards identification

### 2.1 Hazard classification according to GHS

Acute toxicity, oral	Category 4
Hazardous to the aquatic environment, long-term hazard	Category 3

### 2.2 Label elements

Hazard pictograms	
Signal word	Warning

### 2.3 Hazard statements



<b>H302</b>	Harmful if swallowed.
<b>H412</b>	Harmful to aquatic life with long lasting effects.

## 2.4 Precautionary statements

### ◆ Prevention

<b>P264</b>	Wash thoroughly after handling.
<b>P270</b>	Do not eat, drink or smoke when using this product.
<b>P273</b>	Avoid release to the environment.

### ◆ Response

<b>P301+P317</b>	IF SWALLOWED: Get medical help.
<b>P330</b>	Rinse mouth.

### ◆ Storage

<b>Storage</b>	Not applicable.
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### ◆ Disposal

<b>P501</b>	Dispose of contents/ container in accordance with local/ regional/ national/ international regulations.
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## 2.5 Hazard description

<b>Physical and chemical hazards</b>	Data conclusive but not sufficient for classification.
<b>Health hazards</b>	This substance is harmful if swallowed.
<b>Environment hazards</b>	This substance is harmful to aquatic life with long lasting effects.

## 3. Composition/Information on Ingredients

Component	CAS NO.	EC NO.	Concentration percent %
2-hydroxy-2-methylpropiophenone	7473-98-5	231-272-0	≥98.5

## 4. First Aid Measures

### 4.1 Description of First Aid Measures

<b>General advice</b>	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
<b>Eye contact</b>	Wash affected eyes for at least 15 minutes under running water with eyelids held open.
<b>Skin contact</b>	Wash thoroughly with soap and water.
<b>Ingestion</b>	Rinse mouth immediately and then drink plenty of water, seek medical attention.
<b>Inhalation</b>	If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.
<b>Protecting of first-aiders</b>	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.



## 4.2 Most important symptoms and effects, both acute and delayed

- |   |   |
|---|---|
| 1 | Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further symptoms are possible. |
|---|---|

## 4.3 Indication of any immediate medical attention and special treatment needed

- |   |  |
|---|--|
| 1 | Treat symptomatically.   |
| 2 | Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote. |

## 5. Fire Fighting Measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Water spray, dry powder, foam.
<b>Unsuitable extinguishing media</b>	Water jet.

### 5.2 Specific hazards arising from the substance or mixture

- |   |   |
|---|---|
| 1 | Heating may cause expansion or decomposition leading to violent rupture of containers.                |
| 2 | Combustion of vapor and liquid may produce carbon monoxide, carbon dioxide and other hazardous gases. |
| 3 | Slight fire hazard when exposed to heat or flame.   |

### 5.3 Advice for firefighters

- |   |  |
|---|--|
| 1 | As in any fire, wear self-contained breathing apparatus and full protective gear.  |
| 2 | Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method According to the surrounding situation is used. |
| 3 | Uninvolved persons should evacuate to a safe place.  |
| 4 | In case of fire in the surroundings, keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so.           |

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

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|---|--|
| 1 | Remove all sources of ignition. Ensure adequate ventilation. Take precautionary measures against static discharges.  |
| 2 | Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid breathing vapors and contacting with skin and eyes. |
| 3 | Avoid dust formation. Use personal protective clothing. Breathing protection required.   |

### 6.2 Environmental precautions

- |   |   |
|---|---|
| 1 | Prevent further leakage or spillage if safe to do so. |
| 2 | Do not let product enter drains.                      |



### 6.3 Methods and materials for containment and cleaning up

1	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
2	For large amounts: Pump off product. For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.
3	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

## 7. Handling and storage

### 7.1 Precautions for handling

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes. Avoid inhalation of vapours.
4	Keep away from heat/sparks/open flames/ hot surfaces.

### 7.2 Precautions for storage

1	Keep containers tightly closed in a dry, cool and well-ventilated place.
2	Keep away from heat/sparks/open flames/ hot surfaces.
3	Store away from incompatible materials such as oxidizing agents and other incompatible materials.
4	Store away from foodstuff containers.

## 8. Exposure controls/personal protection

### 8.1 Control parameters

#### ◆Occupational Exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
2-hydroxy-2-methylpropiophenone CAS NO.: 7473-98-5	Australia	-	-	-	-
	Denmark	-	-	-	-
	Germany (AGS)	-	-	-	-
	Ireland	-	-	-	-
	South Korea	-	-	-	-
	USA(OSHA)	-	-	-	-

#### ◆Biological limit values

<b>Biological limit values</b>	No information available.
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#### ◆Monitoring methods

1	EN14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents .
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## 8.2 Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.

## 8.3 Personal protection equipment

<b>General requirement</b>	
<b>Eye protection</b>	Tightly fitting safety goggles (approved by EN166(EU) or NIOSH(US)).
<b>Hand protection</b>	Protective gloves (such as butyl rubber), approved by EN374(EU).
<b>Respiratory protection</b>	Suitable respiratory protection for lower concentrations or short-term effect: Particle filters with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2).
<b>Skin and body protection</b>	Wear fire/flame resistant/retardant clothing and antistatic boots.

## 9. Physical and chemical properties

### Physical and chemical properties

<b>Appearance</b>	Transparent yellow liquid
<b>Odor</b>	No information available
<b>Odor threshold</b>	No information available
<b>pH</b>	No applicable
<b>Melting point/freezing point</b>	No melting point was found between -100 °C and vaporization at 240°C. A reproducible glass transition was found at -60°C
<b>Initial boiling point and boiling range</b>	252.1°C at 101.3 kPa
<b>Flash point</b>	122°C at 101325 Pa (closed cup)
<b>Evaporation rate</b>	No data available
<b>Flammability(solid, gas)</b>	Non flammable
<b>Upper/lower explosive limits</b>	No data available
<b>Vapor pressure</b>	0.006 hPa at 20°C
<b>Vapor density</b>	No data available
<b>Relative density</b>	1076.7 kg/m <sup>3</sup> at 20 °C (density)
<b>Water Solubility</b>	13.3 g/L at 20 °C
<b>n-octanol/water partition coefficient</b>	Log Kow (Log Pow): 1.62 at 25°C
<b>Auto-ignition temperature</b>	446°C at 1013 hPa



<b>Decomposition temperature</b>	No information available
<b>Viscosity</b>	25 mPa.s at 20°C 8.2 mPa.s at 40°C
<b>Surface tension:</b>	62.6 mN/m at 20 °C and 1000 mg/L
<b>Dissociation constant in water( pKa):</b>	pKa at 20 °C: 13.2

## 10. Stability and reactivity

### Stability and reactivity

<b>Reactivity</b>	No hazardous reactions if stored and handled as prescribed/indicated.
<b>Chemical stability</b>	The product is stable if stored and handled as prescribed/indicated.
<b>Possibility of hazardous reaction</b>	No hazardous reactions when stored and handled according to instructions.
<b>Conditions to avoid</b>	Incompatible materials. Avoid direct sunlight.
<b>Incompatible materials</b>	Substances to avoid: strong acids, strong bases, strong oxidizing agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products if stored and handled as prescribed/indicated. In case of fire may release Oxides of carbon.

## 11. Toxicological information

<b>LD<sub>50</sub>(oral)</b>	LD50 - Rat - 1694 mg/kg bw
<b>LD<sub>50</sub>(dermal)</b>	LD50 - Rat - 6929 mg/kg bw
<b>LC<sub>50</sub>(inhalation)</b>	LC50 - Rat - No information available
<b>Skin corrosion/irritation</b>	Not classified.
<b>Serious eye damage/irritation</b>	Not classified.
<b>Respiratory or skin sensitization</b>	Not classified.
<b>Germ cell mutagenicity</b>	Not classified.
<b>Carcinogenicity</b>	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<b>Reproductive toxicity</b>	Not classified.
<b>STOT-single exposure</b>	Not classified.
<b>STOT-repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not classified.

## 12. Ecological information

### Ecological information

<b>Acute (short-term) toxicity:</b>	
<b>Toxicity to Fish</b>	LC50(48h)160 mg/L
<b>Toxicity to Invertebrates</b>	EC50(48h)>119 mg/L



<b>Toxicity to Algae</b>	EC50 (72h) 1.95 mg/L
<b>Chronic (long-term) toxicity:</b>	
<b>NOEC(Fish)</b>	Not available
<b>NOEC(Daphnia magna)</b>	Not available
<b>NOEC(Algae/aquatic plants)</b>	0.194 mg/L (72h)
<b>Persistence and degradability</b>	The substance is readily biodegradable.
<b>Bioaccumulative potential</b>	Substance has low potential for bioaccumulation based on $\log K_{ow} \leq 3$
<b>Mobility in soil</b>	Koc at 20 °C: 10.67; $\log K_{oc}$ : 1.03. Therefore, adsorption to the solid soil phase is not expected.
<b>Results of PBT and vPvB assessment</b>	The substance is not considered a PBT/vPvB.
<b>Other adverse effects</b>	Harmful to aquatic life with long lasting effects.

### 13. Disposal considerations

#### Disposal considerations

<b>Waste chemicals</b>	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
<b>Contaminated packaging</b>	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
<b>Disposal recommendations</b>	Refer to section 13.1 and 13.2.

### 14. Transport information

#### 14.1 Label

<b>Label</b>	Not applicable
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#### 14.2 Transport information

<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not regulated
<b>Transport hazard class</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Environmental hazards</b>	No
<b>Special precautions for user</b>	See section 2.2
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not regulated

### 15. Regulatory information

#### 15.1 International chemical inventory





<b>EINECS</b>	Listed
<b>TSCA</b>	Listed
<b>DSL</b>	Listed
<b>IECSC</b>	Listed
<b>NZLOC</b>	Listed
<b>PICCS</b>	Listed
<b>KECI</b>	Listed

## 16. Other information

### 16.1 Information on revision

<b>Creation Date</b>	2015/05/29
<b>Revision Date</b>	2022/03/18
<b>Reason for revision</b>	Modified according to the requirements of UN GHS (sixth revision).

### 16.2 Reference

[1]IPCS: The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>

[2]IARC, website: <http://www.iarc.fr/>

[3]OECD: The Global Portal to Information on Chemical Substances, website:

[http://www.echemportal.org/echemportal/index?pageID=0&request\\_locale=en](http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en)

[4]CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>

[5]NLM: ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>

[6]EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>

[7]U.S. Department of Transportation: ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>

[8]Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

### 16.3 Abbreviations and acronyms

**CAS** –Chemical Abstracts Service

**TSCA**- United States Toxic Substances Control Act Inventory

**EINECS**-European Inventory of Existing Commercial Chemical Substances

**DSL**- Canadian Domestic Substances List

**PICCS**- Philippines Inventory of Chemicals and Chemical Substances

**NZIOC**- New Zealand Inventory of Chemicals

**IECSC**- China Inventory of Existing Chemical Substance

**KECI**- Existing and Evaluated Chemical Substances

**PC-STEL**- Short term exposure limit

**PC-TWA**- Time Weighted Average

**DNEL**- Derived No Effect Level

**IARC**- International Agency for Research on Cancer

**RPE**- Respiratory Protective Equipment

**PNEC**–Predicted No Effect Concentration

**LC<sub>50</sub>**- Lethal Concentration 50%

**LD<sub>50</sub>**- Lethal Dose 50%

**NOEC**- No Observed Effect Concentration

**EC<sub>50</sub>**- Effective Concentration 50%

**PBT** - Persistent, Bioaccumulative, Toxic

**POW** -Partition coefficient Octanol: Water

**BCF**- Bioconcentration factor(BCF)

**vPvB**- very Persistent, very Bioaccumulative

**CMR**- Carcinogens, mutagens or substances toxic to reproduction

### 16.4 Disclaimer

This Safety Data Sheet (SDS) was prepared according to UNGHS (the 6th revised edition). The data included was derived from international



## Safety Data Sheet

# JRCure 1173

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\* According to UN GHS (the 6th revise dedition)



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