



1. Identification of the chemical and supplier

1.1 Product identifier

Product name	JRCure 184
Synonyms	1-Hydroxycyclohexyl phenyl ketone
CAS NO.	947-19-3
EC NO.	213-426-9
Molecular formula	C ₁₃ H ₁₆ O ₂

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

Hazard classes/Hazard categories	N/A
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2.2 Label elements

Hazard pictograms	Not applicable
Signal word	Not applicable

2.3 Hazard statements

Hazard statements	Not applicable
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2.4 Precautionary statements

◆ Prevention

Prevention	Not applicable.
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◆ Response



Response	Not applicable.
◆ Storage	
Storage	Not applicable.
◆ Disposal	
Disposal	Not applicable.

2.5 Hazard description

Physical and chemical hazards	Data conclusive but not sufficient for classification.
Health hazards	Data conclusive but not sufficient for classification.
Environment hazards	Data conclusive but not sufficient for classification.

3. Composition/Information on Ingredients

Component	CAS NO.	EC NO.	Concentration percent %
1-Hydroxycyclohexyl phenyl ketone	947-19-3	213-426-9	≥99.0

4. First Aid Measures

4.1 Description of First Aid Measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Wash affected eyes for at least 15 minutes under running water with eyelids held open.
Skin contact	Wash immediately, abundantly and thoroughly with soap and water.
Ingestion	Rinse mouth and then drink plenty of water.
Inhalation	If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.
Protecting of first-aiders	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	See section 11.
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4.3 Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

5. Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media	Dry powder, foam.
Unsuitable extinguishing media	Carbon dioxide. Additional information: Avoid whirling up the material/product because of the danger of dust explosion.

5.2 Specific hazards arising from the substance or mixture

1	Combustible solid which burns but propagates flame with difficulty; it is estimated that most organic dusts are combustible (circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions.
2	Slight fire hazard when exposed to heat or flame.
3	Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions).

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	In case of fire in the surroundings, keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so.
4	Uninvolved persons should evacuate to a safe place.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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.

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	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
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 formation of dust.
4	Keep away from heat/sparks/open flames/ hot surfaces.

7.2 Precautions for storage

1	Store in original containers.
2	Keep containers securely sealed.
3	Store in a cool, dry area protected from environmental extremes.
4	Store away from incompatible materials and foodstuff containers.
5	Protect from the effects of light. Avoid all sources of ignition: heat, sparks and open flame. Storage stability: Storage temperature: ≤ 35 °C

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 ³	ppm	mg/m ³
1-Hydroxycyclohexyl phenyl ketone CAS.NO: 947-19-3	Australia	-	-	-	-
	Denmark	-	-	-	-
	Germany (AGS)	-	-	-	-
	Ireland	-	-	-	-
	South Korea	-	-	-	-
	USA(OSHA)	-	-	-	-

◆Biological limit values

Biological limit values No information available.

◆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

General requirement	
Eye protection	Tightly fitting safety goggles (approved by EN166(EU) or NIOSH(US)).
Hand protection	Protective gloves (such as butyl rubber), approved by EN374(EU).
Respiratory protection	Use appropriate respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Recommended Filter type: low boiling organic solvent, Type AX, Brown, conforming to EN371.
Skin and body protection	Wear fire/flame resistant/retardant clothing and antistatic boots.

9. Physical and chemical properties

Physical and chemical properties

Appearance:	White crystalline powder
pH:	5.7 of 1% suspension in water
Melting point/range (°C):	46-50 °C at 101.3 kPa
Boiling point/range (°C):	316.1 °C at 101.3 kPa
Flash point (°C):	164 °C at 1013 hPa (closed cup)
Self-ignition temperature:	424 °C at 1013 hPa
Vapour pressure:	0.02 Pa at 20 °C
Relative Density:	1182 kg/m ³ at 20 °C (density)
Water solubility (mg/l):	442 mg/L at 23 °C
n-Octanol/Water (log Po/w):	Log Kow (Log Pow): 2.81 at 25 °C
Viscosity:	Not available
Surface tension:	60.2 mN/m at 20°C and 900000 mg/L
Dissociation constant in water(pKa):	pKa at 20 °C: 15.7
Flammability:	Not flammable.
Explosive properties :	Non explosive
Oxidising properties :	Oxidising: no
Granulometry :	MMD= 549µm



10. Stability and reactivity

Stability and reactivity

Reactivity	Stable under recommended storage conditions.
Chemical stability	Stable under recommended handling and storage conditions.
Possibility of hazardous reaction	No hazardous reactions when stored and handled according to instructions.
Conditions to avoid	Incompatible materials. Temperatures above 35 °C (to maintain the technical properties of the product) and incompatible materials.
Incompatible materials	Strong acids, strong bases, strong oxidizing agents.
Hazardous decomposition products	Carbon oxides, toxic gases/vapours.

11. Toxicological information

LD₅₀(oral)	LD50 Oral - Rat - >2500 mg/kg
LD₅₀(dermal)	LD50 Dermal - Rat - >5000 mg/kg
LC₅₀(inhalation)	LC50 Inhalation - Rat - >1000 mg/kg air (4h)
Skin corrosion/irritation	Not classified.
Serious eye damage/irritation	Not classified.
Respiratory or skin sensitization	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	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.
Reproductive toxicity	Not classified.
STOT-single exposure	Not classified.
STOT-repeated exposure	Not classified.
Aspiration hazard	Not classified.

12. Ecological information

Ecological information

Acute (short-term) toxicity:	
Toxicity to Fish	LC50 (96h) 24mg/L
Toxicity to Invertebrates	EC50 (48h) 53.9 mg/L
Toxicity to Algae	EC50 (72h) 14.4 mg/L
Chronic (long-term) toxicity:	
NOEC(Fish)	NOEC: Not available
NOEC(Daphnia)	NOEC: Not available
EC10(Algae/aquatic plants)	2.51 mg/L (72h)

JRCure 184

Version: V1.0.0.1

Creation Date: 2015/05/29

Revision Date: 2022/01/20

Record Number: ghs-0004

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

Persistence and degradability	Ready biodegradability
Bioaccumulative potential	No bioaccumulation potential.
Mobility in soil	Adsorption to solid soil phase is not expected.
Results of PBT and vPvB assessment	The substance is not considered a PBT/vPvB.
Other adverse effects	Not available

13. Disposal considerations

Disposal considerations

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

14. Transport information

14.1 Label

Label	Not applicable
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14.2 Transport information

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

15. Regulatory information

15.1 International chemical inventory

EINECS	Listed
TSCA	Listed
DSL	Listed
IECSC	Listed
NZLOC	Listed
PICCS	Listed

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KECI Listed

16. Other information

16.1 Information on revision

Creation Date	2015/05/29
Revision Date	2022/01/20
Reason for revision	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

[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

LC₅₀- Lethal Concentration 50%

LD₅₀- Lethal Dose 50%

NOEC- No Observed Effect Concentration

EC₅₀- 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 authoritative data base and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.