

## JRCure BDK

Version: V1.0.0.1

Creation Date: 2015/05/29

Revision Date: 2022/03/17

Record Number: ghs-0017

\* According to UN GHS (the 6th revised edition)

## 1. Identification of the chemical and supplier

### 1.1 Product identifier

Product name	JRCure BDK
Synonyms	2,2-dimethoxy-1,2-diphenylethan-1-one
CAS NO.	24650-42-8
EC NO.	246-386-6
Molecular formula	C <sub>16</sub> H <sub>16</sub> O <sub>3</sub>

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

Relevant identified uses	Additives, UV Photoinitiator.
Uses advised against	Not for family or other use.

### 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.
Post code	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
STOT RE	Category 2
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>H373</b>	May cause damage to organs (state all organic affected, if know) through prolonged or repeated exposure (Oral).
<b>H412</b>	Harmful to aquatic life with long lasting effects.

## 2.4 Precautionary statements

### ◆ Prevention

<b>P260</b>	Do not breathe dust/fume/gas/mist/vapours/spray.
<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>P319</b>	Get medical help if you feel unwell.
<b>P330</b>	Rinse mouth.

### ◆ Storage

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

<b>P501</b>	Dispose of contents/container to ... ..in accordance with local/regional/national /international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.
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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>	The material may cause damage to organs (state all organic affected, if know) through prolonged or repeated exposure (Oral).
<b>Environment hazards</b>	Harmful aquatic life with long lasting effects.

## 3. Composition/Information on Ingredients

Component	CAS NO.	EC NO.	Concentration percent %
2,2-dimethoxy-1,2-diphenylethan-1-one	24650-42-8	246-386-6	≥99

## 4. First Aid Measures

### 4.1 Description of First Aid Measures

<b>General advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance.
<b>Eye contact</b>	In case of eye contact, immediately rinse with clean water for 20-30 minutes and consult a physician.

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<b>Skin contact</b>	Take off contaminated clothing and shoes immediately. Wash thoroughly with soap and water. Consult a physician if feel uncomfortable.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>Inhalation</b>	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
<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	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

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

#### 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	Combustion of vapor and liquid may produce carbon monoxide, carbon dioxide and other hazardous gases.
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	Alert Fire Brigade and tell them location and nature of hazard.
2	Wear self-contained breathing apparatus for firefighting if necessary.
3	Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used.
4	In case of fire in the surroundings, keep containers cool by spraying with water.
5	Eliminate all ignition sources if safe to do so.

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6	Uninvolved persons should evacuate to a safe place.
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## 6. Accidental release measures

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

1	Use personal protective equipment.
2	Remove all sources of ignition. Ensure adequate ventilation. Take precautionary measures against static discharges.
3	For personal protection see section 8.
4	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	Do not let product enter drains. Discharge into the environment must be avoided.
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### 6.3 Methods and materials for containment and cleaning up

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

## 7. Handling and storage

### 7.1 Precautions for handling

1	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
2	Keep away from heat/sparks/open flames/ hot surfaces.
3	For precautions see section 2.2.

### 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>
2,2-dimethoxy-1,2-diphenylethan-1	Australia	-	-	-	-

-one CAS NO.:24650-42-8	<b>Denmark</b>	-	-	-	-
	<b>Germany (AGS)</b>	-	-	-	-
	<b>Ireland</b>	-	-	-	-
	<b>South Korea</b>	-	-	-	-
	<b>USA(OSHA)</b>	-	-	-	-

◆Biological limit values

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

1	EN 14042 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	Handle in accordance with good industrial hygiene and safety practice.
2	Ensure adequate ventilation, especially in confined areas.
3	Ensure that eyewash stations and safety showers are close to the workstation location .

8.3 Personal protection equipment

<b>General requirement</b>	
<b>Eye protection</b>	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US)).
<b>Hand protection</b>	Protective gloves (such as butyl rubber), approved by EN 374(EU).
<b>Respiratory protection</b>	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.
<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>	White crystalline powder
<b>Odor</b>	Odourless
<b>Odor threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point/freezing point</b>	64.0-67.0 °C at 101.3 kPa

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<b>Initial boiling point and boiling range</b>	352.25°C(101.3 kPa)
<b>Flash point</b>	163 °C at 1013 hPa (open 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>	0.002 Pa at 25 °C
<b>Vapor density</b>	No data available.
<b>Relative density</b>	1.10 at 20 °C
<b>Water Solubility</b>	66.32mg /L at 25°C
<b>n-octanol/water partition coefficient</b>	Log Kow(log Pow): 2.95 at 25°C
<b>Auto-ignition temperature</b>	> 400 °C at 1013 hPa
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available

## 10. Stability and reactivity

### Stability and reactivity

<b>Reactivity</b>	No information available.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reaction</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Incompatible materials. Avoid light. Avoid electro-static discharge.
<b>Incompatible materials</b>	Substances to avoid: strong oxidizing agents.
<b>Hazardous decomposition products</b>	By fire toxic gases (COx) may be formed.

## 11. Toxicological information

<b>LD<sub>50</sub>(oral)</b>	LD50-Oral - Rat - 1470 mg/kg bw
<b>LD<sub>50</sub>(dermal)</b>	No data available.
<b>LC<sub>50</sub>(inhalation)</b>	No data available.
<b>LD<sub>50</sub> (Intraperitoneal)</b>	Not classified.
<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>	May cause damage to organs (state all organs affected, if known) through

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	prolonged or repeated exposure (Route of exposure: Oral).
<b>Aspiration hazard</b>	Not classified.
<b>Additional Information</b>	Not classified.

## 12. Ecological information

### Ecological information

<b>Acute (short-term) toxicity:</b>	
<b>Toxicity to Fish</b>	LC50 (96h) 29.67mg/L
<b>Toxicity to Invertebrates</b>	EC50 (48h) 18.387mg/L
<b>Toxicity to Algae</b>	EC50 (96h) 19.666mg/L
<b>Chronic (long-term) toxicity:</b>	
<b>NOEC(Fish):</b>	3.215 mg/L
<b>NOEC(Daphnia magna):</b>	2.288 mg/L
<b>NOEC(Algae/aquatic plants):</b>	6.258 mg/L (96h)
<b>Persistence and degradability</b>	The test substance is inherently biodegradability.
<b>Bioaccumulative potential</b>	BCF: 10.63 L/kg ww.
<b>Mobility in soil</b>	Koc at 20 °C: 351.2
<b>Results of PBT and vPvB assessment</b>	Does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.
<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

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<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
<b>ENCS</b>	Listed
<b>AICS</b>	Listed

## 16. Other information

### 16.1 Information on revision

<b>Creation Date</b>	2015/05/29
<b>Revision Date</b>	2022/03/17
<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

DSL - Canadian Domestic Substances List

Substances



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

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

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

**DNEL** - Derived No Effect Level

**RPE** - Respiratory Protective Equipment

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

**NOEC** -No Observed Effect Concentration

**PBT** - Persistent, Bioaccumulative, Toxic

**BCF** - Bioconcentration factor (BCF)

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

**NZIOC** -New Zealand Inventory of Chemicals

**KECI**- Existing and Evaluated Chemical Substances

**PC-TWA** - Time Weighted Average

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

**PNEC** -Predicted No Effect Concentration

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

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

**POW** - Partition coefficient Octanol:Water

**vPvB** - very Persistent, very Bioaccumulative

### 16.4 Disclaimer

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