

# SAFETY DATA SHEET

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## SECTION 1: Identification of the hazardous chemical and of the supplier

### Product identifier

Product Code(s)	CT290069
Safety data sheet number	IK106GM01
Product Name	Ink Black R02

### Other means of identification

Synonyms	No information available
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### Recommended use of the chemical and restrictions on use

Recommended use	Inkjet Ink
Uses advised against	No information available

### Supplier's details

#### Supplier

**Company Name:** FUJIFILM Business Innovation Asia Pacific Pte. Ltd

**Address:** Ground Floor, Axis Business Park, Block C, No. 10, Jalan Bersatu 13/4, 46200 Petaling Jaya, Selangor, Malaysia

**Division:**

**Phone Number:** +603-7882 2888

**FAX Number:**

### Emergency telephone number

Emergency Telephone	No information available
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## SECTION 2: Hazard identification

### Classification of the substance or mixture

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

### Other hazards which do not result in classification

No information available.

### SECTION 3: Composition and information of the ingredients of the hazardous chemical

#### Substance

Not applicable

#### Mixture

Chemical name	CAS No	Weight-%
Non-Hazardous Substances	-	>60
Carbon black	1333-86-4	1 - 10

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### SECTION 4: First aid measures

#### Description of necessary measures

<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If unconscious, place in recovery position and get medical attention immediately.
<b>Skin contact</b>	Flush contaminated skin with plenty of water. Continue to rinse for at least 10 minutes. Get medical attention.
<b>Eye contact</b>	Immediately flush eyes with plenty of water. Continue to rinse for at least 10 minutes. Get medical attention.
<b>Ingestion</b>	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention. If unconscious, place in recovery position and get medical attention immediately.

#### Most important symptoms/effects, acute and delayed

<b>Symptoms</b>	No information available.
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#### Indication of immediate medical attention and special treatment needed, if necessary

<b>Note to physicians</b>	Treat symptomatically.
<b>Specific treatments</b>	No specific treatment.
<b>Protection of first-aiders</b>	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

### SECTION 5: Firefighting measures

#### Suitable (and unsuitable) extinguishing media

<b>Suitable Extinguishing Media</b>	Dry chemical, foam, carbon dioxide, water fog.
<b>Unsuitable extinguishing media</b>	None.
<b>Specific hazards arising from the chemical</b>	No information available.

### **Special protective equipment and precautions for fire-fighters**

<b>Special protective actions for fire-fighters</b>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.
<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

## **SECTION 6: Accidental release measures**

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

<b>Personal precautions</b>	Use personal protection recommended in Section 8.
<b>For emergency responders</b>	Use personal protection recommended in Section 8.

### **Environmental precautions**

<b>Environmental precautions</b>	Prevent from entering into soil waterways and ground water.
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### **Methods and material for containment and cleaning up**

<b>Small spill</b>	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
<b>Large spill</b>	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

### **Precautions to prevent secondary hazards**

<b>Prevention of secondary hazards</b>	Clean contaminated objects and areas thoroughly observing environmental regulations.
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## **SECTION 7: Handling and storage**

### **Precautions for safe handling**

<b>Protective measures</b>	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
<b>Advice on safe handling</b>	Handle in accordance with good industrial hygiene and safety practice. Follow Industrial Safety and Health Law.
<b>Conditions for safe storage, including any incompatibilities</b>	Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Keep in our designated packaging materials. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment

to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## SECTION 8: Exposure controls and personal protection

### Control parameters

#### Exposure Limits

Chemical name	Malaysia	ACGIH TLV
Carbon black	TWA 8 hours: 3.5 mg/m <sup>3</sup> .	Refer to the permissible concentration in the latest version of ACGIH

### Biological occupational exposure limits

None known.

### Appropriate engineering controls

Engineering controls      None required when used as intended in our equipment.

### Individual protection measures, such as personal protective equipment

Eye/face protection	Use eye protection. Use face shield in case of splash risk.
Skin and body protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Environmental exposure controls	No information available.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance	Liquid	Color	black
Physical state	Liquid	Odor threshold	No information available
Odor	Slight.		

Property	Values	Remarks • Method
pH	7-9.5	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known

#### Upper/lower flammability or explosive limits

Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	soluble	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known

**Dynamic viscosity**

5 to 12 mPa·s (5 to 12 cP) [25°C] None known

**Other information****Explosive properties**

No information available

**Oxidizing properties**

No information available

**Molecular weight**

No information available

**VOC Content (%)**

No information available

**SECTION 10: Stability and reactivity****Reactivity****Reactivity**

No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability****Stability**

The product is stable.

**Possibility of hazardous reactions****Possibility of hazardous reactions**

Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid****Conditions to avoid**

Keep away from heat, sparks and flame. Avoid high temperatures. Keep away from direct sunlight. Protect from freezing.

**Incompatible materials****Incompatible materials**

Reactive or incompatible with the following materials: Oxidizing materials, strong acids, alkalis.

**Hazardous decomposition products****Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: Toxicological information****Information on toxicological effects****Acute toxicity**

Product/ingredient name	Results	Species	Dose	Exposure
Ink Black R02	LD50 Oral	Rat	2000mg/kg	-

**Conclusion/Summary**

Based on available data, the classification criteria are not met.

**Irritation/Corrosion corrosion/irritation**

Product/ingredient name	Results	Species	Score	Exposure	Observation
Ink Black R02	Eyes - Not irritant	Rabbit	-	-	-
	Skin - Not irritant	Rabbit	-	-	-

**Conclusion/Summary****Skin** Based on available data, the classification criteria are not met.**Eyes** Based on available data, the classification criteria are not met.**Respiratory** Not available.**Respiratory or skin sensitization**

Product/ingredient name	Route of exposure	Species	Result
Ink Black R02	skin	Guinea pig	Not sensitizing

**Conclusion/Summary****Skin** Based on available data, the classification criteria are not met.**Respiratory** Not available.

**Mutagenicity**

Product/ingredient name	Test	Experiment	Result
Ink Black R02	Ames	Experiment: In vitro Subject: Bacteria	Negative

**Conclusion/Summary** Based on available data, the classification criteria are not met.

**Carcinogenicity**

**Conclusion/Summary** Suspected of causing cancer.

**Reproductive toxicity**

**Conclusion/Summary** Not available.

**Teratogenicity**

**Conclusion/Summary** Not available.

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Name	Category	Route of exposure	Target organs
carbon black, respirable powder	Category 1	-	lungs

**Aspiration hazard**

Not available.

**Information on the likely routes of exposure** Not available.

**Potential acute health effects**

**Eye contact** No known significant effects or critical hazards.

**Inhalation** No known significant effects or critical hazards.

**Skin contact** No known significant effects or critical hazards.

**Ingestion** No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact** No specific data.

**Inhalation** No specific data.

**Skin contact** No specific data.

**Ingestion** No specific data.

**Delayed and immediate effects and also chronic effects from short and long term exposure****Short term exposure**

**Potential immediate effects** Not available.

**Potential delayed effects** Not available.

**Long term exposure**

**Potential immediate effects** Not available.

**Potential delayed effects** Not available.

**Potential chronic health effects**

Not available.

**Conclusion/Summary** Not available.

**General** Causes damage to organs through prolonged or repeated exposure.

<b>Carcinogenicity</b>	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
<b>Mutagenicity</b>	No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	No known significant effects or critical hazards.

**Numerical measures of toxicity****Acute toxicity estimates**

Not available.

**SECTION 12: Ecological information****Ecotoxicity****Algae EC50**

Product/ingredient name	Lower	Upper	Test conditions
Ink Black R02	100 mg/L		72h

**Daphnia EC50**

Product/ingredient name	Lower	Upper	Test conditions
Ink Black R02	100 mg/L		48h

**Fish LC50**

Product/ingredient name	Lower	Upper	Test conditions
Ink Black R02	500 mg/L		96h

**Conclusion/Summary** Based on available data, the classification criteria are not met.

**Persistence and degradability**

**Conclusion/Summary** There are no data available on the mixture itself.

**Bioaccumulative potential**

Not available.

**Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** Not available.

**Mobility** Not available.

**Other adverse effects** No known significant effects or critical hazards.

**SECTION 13: Disposal information****Disposal methods**

**Waste from residues/unused products** No information available

**Contaminated packaging** Do not reuse empty containers.

## SECTION 14: Transportation information

<b>UN number</b>	Not applicable
<b>Proper shipping name</b>	Not applicable
<b>Transport hazard class(es)</b>	Not applicable
<b>Subsidiary hazard class</b>	Not applicable
<b>Packing group</b>	Not applicable
<b>ERG Code</b>	Not applicable

### **IMDG**

<b>Marine pollutant:</b>	Not applicable
<b>Transport in bulk according to Not applicable Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable
<b>EmS-No.:</b>	Not applicable
<b>Packing instruction:</b>	Not applicable

### **IATA**

<b>Passenger and Cargo Aircraft:</b>	Not applicable
<b>Cargo Aircraft Only:</b>	Not applicable

### **Special precautions for user**

<b>Transport within user's premises</b>	always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
<b>Transport in bulk according to IMO instruments</b>	Not applicable.

## SECTION 15: Regulatory information

### **National regulations**

<b>EHS Register</b>	Not determined
<b>Poison Act, Poison List - Schedule 1</b>	Not applicable.
<b>Poison Act, Poison List - Schedule 3</b>	Not applicable.

### **International Regulations**

<b>The Montreal Protocol on Substances that Deplete the Ozone Layer</b>	Not listed
<b>The Stockholm Convention on Persistent Organic Pollutants</b>	Not listed
<b>The Rotterdam Convention</b>	Not listed

## SECTION 16: Other information

**Date of preparation of the SDS** 12-Dec-2024

**Date of revision of the SDS**

### **Key or legend to abbreviations and acronyms used in the safety data sheet**

ACGIH	= American Conference of Governmental Industrial Hygienists
ADR	= The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	= Acute Toxicity Estimate
BCF	= Bioconcentration Factor
GHS	= Globally Harmonized System of Classification and Labelling of Chemicals



IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

TWA = time-weighted average

N/A = Not available

SGG = Segregation Group

UN = United Nations

#### **References**

Not available

#### **Notice to reader**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**