Safety Data Sheet

MSDS No : IK071GE01

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1. PRODUCT AND COMPANY IDENTIFICATION

Manufacturer : FUJIFILM Business Innovation Corp.
Address : 9-7-3 Akasaka, Minato-ku,Tokyo 107-0052, Japan
Contact Point : [Department] Environment & Product Safety Customer Satisfaction Quality Assurance Department
[Telephone number] +81-46-237-1686
[FAX Number] +81-46-238-5796
[E-mail] dge-fb-msds-admin@fujifilm.com

Product Code : CT290026
Product Name : 2800 Inkjet Color Continuous Feed Printing System/
1400 Inkjet Color Continuous Feed Printing System
PIGMENT 2 INK BLACK

Recommended use : Inkjet ink
Restrictions on use : Consult expert judgment as using for purposes other than those recommended.

2.HAZARD IDENTIFICATION

GHS classification
Not classified as hazardous mixture of GHS classification.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Distinction of substance or mixture : Mixture
Chemical Nature :

Chemical Name	Ingredients (% by wt.)	CAS Number
water	40-60%	7732-18-5
glycol	30-50%	Undisclosed
organic compounds	5-20%	Undisclosed
pigment black 7	3-7%	1333-86-4

This product does not contain Lead, Mercury, Cadmium, Hexavalent Chromium, Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Bis(2-ethylhexyl)phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) intentionally.

4.FIRST-AID MEASURES

Eye contact	:	Rinse with water. Get medical attention if irritation develops and persists.
Skin contact	:	Rinse with water/shower. Get medical attention if irritation develops and persists.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a doctor/physician.
Ingestion	:	Rinse mouth. Get medical attention if any discomfort continues.
Protection of first-aid responders		Rescuers should wear proper personal protective equipment suitable for situation.

5.FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	:	Dry chemical, foam, carbon dioxide, water fog..
Unsuitable Extinguishing Media	:	None.
Special fire fighting procedures	:	Evacuate area and fight fire from a safe distance. Keep personnel removed from and upwind offire. Water runoff can damage the environment. Dike and collect water used to fight fire.
Protection of fire-fighters	:	Wear adequate personal protective equipment.

6.ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Wear adequate personal protective equipment, see Section 8 (Exposure Controls/Personal Protection)
Environmental precautions	:	Prevent from entering into soil, waterways and ground water.
Methods and materials for containment and cleaning up	:	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Use water spray to reduce vapors or divert vapor cloud drift. Followingproduct recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly toremove residual contamination. Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.

7.HANDLING AND STORAGE

Handling

Technical measures	:	Avoid contact with skin, eyes and clothing. Wash hands after handling.

Local and total ventilation	:	Use only with adequate ventilation.
Precautions	:	See Section 8 (Exposure Controls/Personal Protection)
Safe handling advice	:	See Section 10 (Stability and reactivity).
Storage		
Conditions for safe storage	:	Protect from sunlight. Keep container tightly closed.
Packaging compatibilities	:	Use plastic container that have enough toughness.

8.EXPOSURE CONTROLS /PERSONAL PROTECTION

Engineering measures		Evacuate and ventilate spill area.
ACGIH TLV (2013)	:	3 mg/m3(pigment black 7)
	:	Refer the latest ACGIH TLV values.(glycol)
Personal protective equipment		
Respiratory protection	:	Wear suitable respiratory protection.
Hand protection	:	Wear suitable gloves.
Eye protection	:	Use eye protection. Use face shield in case of splash risk.
Skin and body protection	:	Wear suitable protective clothing.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice

9.PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquid
Color	:	Black
Odor	:	Slight.
pH	:	8.5
Melting Point/freezing point	:	<=0℃(<=32F)
Boiling Point/Initial boiling point and boiling range		>=90℃(>=194F)
Flash point	:	Not flammable
Auto-ignition temperature	:	Not available
Upper/lower flammability or explosive limits	:	Non-explosive
Vapour Pressure	:	Not available
Vapour density	:	Not applicable
Relative density	:	1-1.2
Solubility	:	Not available
Partition coefficient:n-octanol/water	:	Not available
Decompositon temperature	:	Not available
Polymerization hazardous		None
Flammability		Not applicable

10.STABILITY AND REACTIVITY

Stability and Reactivity	:	Stable at normal conditions.
Possibility of hazardous reactions	:	None
Conditions to avoid	:	Freezing. Protect against direct sunlight.
Incompatible materials	:	None
Hazardous decomposition products	:	CO,CO2

11.TOXICOLOGICAL INFORMATION

Acute Toxicity		
Swallowed→LD50(rat)	:	>2000 mg/kg (Not applicable to GHS category)
Skin→LD50(-)	:	Not available
Inhaled→LC50(-)		Not available
Skin Irritant(rabbit)	:	Not an irritant
Skin Corrosive	:	Not a corrosive
Serious eye damage/eye irritation - Description(rabbit)	:	Not an irritant
Skin or Respiratory sensitization - Description(mouse or guinea-pig)	:	Not a skin sensitizer
Mutagency	:	Ames Assay: Negative
Carcinogenicity	:	Carbon Black is classified as “Group 2B(possibly carcinogenic to humans) ” by The International Agency for Research on Cancer(IARC). IARC indicates that carbon black has possibility of carcinogenicity to animals through inhalation exposure, but no possibility through oral exposure and skin contact. This product is liquid and the possibility of inhalation exposure to carbon black in this product is extremely low.
Reproduction and Development	:	Not classified as “ Reproductive and Development chemicals [ref.2]”
Specific Target Organ Toxicity Single Exposure	:	Not available
Specific Target Organ Toxicity Repeated	:	Not available
Aspiration Hazard	:	Not applicable
Other Information	:	None

12.ECOLOGICAL INFORMATION

Ecotoxicity				
Acute Toxicity	Fish 96hr LC50(Oryzias latipes)	:	>500 mg/L	(Not applicable to GHS category)
	Daphnia 48hr EC50(Daphnia magna)	:	>100 mg/L	(Not applicable to GHS category)
	Algae 72hr	:	>100 mg/L	(Not applicable to GHS category)

EC50(Selenastrum capricornutum)		
Bioaccumulative potential	:	Not available
Mobility in soil	:	Not available
Other adverse effects	:	Not available

13.DISPOSAL CONSIDERATIONS

Dispose off in accordance with national and local regulations.

14.TRANSPORT INFORMATION

Transport in accordance with national, and local regulations.

15.REGULATORY INFORMATION

Ensure this product in compliance with national requirements and ensure comformity to local regulations.

16.OTHER INFORMATION

The above mentioned data correspond to our present state of knowledge and experience, but no warranty is made. Users should consider these data only as a supplement to other information and must make independent determination of the suitability and completeness of information from all sources to ensure proper use and disposal of the materials and safety and health of employees and customers.
CAS Registry Number(R) is a Registered Trademark of the American Chemical Society.

References

1 : ・IARC Monographs on the Evaluation Carcinogenic Risks to Humans (WHO.International Agency for Research on Cancer)
・National Toxicology Program(NTP) Report on Carcinogens (NTP)
・TLVs and BEIs (American Conference of Governmental Industrial Hygienists)
・REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 ANNEX VI on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
・Journal of Occupational Health(Japan Society for Occupational Heatth)

2 : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006