

SAFETY DATA SHEET

Product name : High Density Ink HD119
SDS Number : 12A081-2

Date Prepared : Aug.21.2018
Revision Date : Jun.17.2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : High Density Ink HD119
Recommended use : Ink for ink jet printer

Company : GENERAL CO., LTD.
18, Satsukigaoka, Minakuchi-cho, Koka-shi, Siga 528-0062, Japan
Telephone number : +81-748-65-2260
Fax number : +81-748-63-1922
Emergency telephone number : +81-748-65-2260

2. HAZARDS IDENTIFICATION

GHS Classification of the substance or mixture
: This product is not classified.

Label Elements

Hazard pictograms : Not applicable
Signal word : Not applicable
Hazard statements : Not applicable
Precautionary statements : Not applicable

Other hazards : None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture : Mixture

Ingredients

Components	CAS No.	Concentration (wt%)
Water	7732-18-5	> 60
2-pyrrolidone	616-45-5	< 15
Glycol	Confidential	< 10
Carbon Black	1333-86-4	< 5
Black Dye	Confidential	< 5

4. FIRST-AID MEASURES

Description of first aid measures

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Get medical advice/attention if you feel unwell.

Skin contact : Wash thoroughly with soap and plenty of water while removing all contaminated clothes.
If skin irritation occurs: Get medical advice/attention.

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to remove. Continue to rinse for at least 15 minutes.
If eye irritation persists: Get medical advice/attention.

Ingestion : Wash mouth with water and seek medical advice.

Most important symptoms and effects, both acute and delayed : No further relevant information available.

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Recommendations for immediate medical care and special treatment needed

Notes to physician : No further relevant information available.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media : Water, Foam, CO₂, Dry Chemical and others.

Unsuitable extinguishing media : No information available.

Specific hazards arising from the substance or mixture

: Carbon oxides, nitrogen oxides will form in fire.

Special protective equipment for firefighters

: Fight fire from the windward side if possible. Wear suitable protective suit and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Wear appropriate personal protective equipment as specified in section 8.

Environmental precautions : Do not release into soil, sewers, river, or the public water courses.

Methods and materials for containment and cleaning up

: In the case of a cartridge: Not applicable.

At the time of the leakage of contents: Spills should be cleaned up with absorbent materials.

7. HANDLING AND STORAGE

Handling

Handling : Put on appropriate personal protective equipment (see Section 8).
Prohibition of dropping and throwing.
Avoid contact with skin, eyes and clothing.
Use only in a well-ventilated area.

Hygiene measures : Wash hands thoroughly after handling.

Storage : Do not store ink in high or freezing temperature.
Keep away from heat and direct sunlight.
Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Exposure Limits

Components	CAS No.	OSHA PEL	ACGIH TLV
2-pyrrolidone	616-45-5	Not determined	Not determined
Carbon Black	1333-86-4	3.5 mg/m ³	TWA 3 mg/m ³

Engineering controls

Engineering measures : Adequate ventilation should be provided so that exposure limits are not exceeded.

Personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection : Wear light-weight plastic or rubber gloves for routine industrial use.

Eye protection : Wear appropriate protective eyeglasses or safety goggles.

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Skin and body protection : Work clothes with long sleeves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid
Color : Black
Odor : No strong odor is arrowed.
pH : 8.3 - 9.3
Melting point : No data available
Boiling point : No data available
Flash point : Not detected.
Evaporation rate : No data available
Flammability (solid, gas) : No data available
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapor pressure : No data available
Vapor density : No data available
Relative density : 1.04
Water solubility : Solubility
Partition coefficient: n-octanol/water : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity : 1.94 - 2.54 mPa·s (at 25 degrees C)

10. STABILITY AND REACTIVITY

Reactivity : No hazardous reactions with proper storage and handling.
Chemical stability : The product is stable under normal conditions.
Possibility of hazardous reactions : No hazardous reactions with proper storage and handling.
Conditions to avoid : Extreme high or low temperatures.
Incompatible materials : Acid and strong oxidizer.
Hazardous decomposition products : Carbon oxides, nitrogen oxides will form in fire.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components	Oral LD50	Dermal LD50	Inhalation LC50
2-pyrrolidone	(rat) 6500 mg/kg	(rabbit) >2000 mg/kg	No data available
Carbon Black	(rat) >8000 mg/kg	(rabbit) >3000 mg/kg	No data available

Skin corrosion/irritation : No data available
Serious eye damage/eye irritation : Causes serious eye irritation. [Glycol]
Respiratory or skin sensitization : No data available
Germ cell mutagenicity : No data available
Carcinogenicity : NTP: Not listed.
IARC: Carbon black: Group 2B
EPA: Not listed.
Carbon black is classified as a group 2B by IARC on carcinogen. However, Printing Ink is classified as a group 3 by IARC.
Reproductive toxicity : No data available

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Specific target organ systemic toxicity - Single exposure : No data available
Specific target organ systemic toxicity - Repeated exposure : No data available
Aspiration hazard : No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components	Species	Value
2-pyrrolidone	Fish (Brachidano rerio)	LC50 (96h) >4600 mg/L
	Crustacea (Daphnia pulex)	EC50 (48 h) 13.21 mg/L

Persistence and degradability : No data available
Bioaccumulation : No data available
Mobility in soil : No data available

13. DISPOSAL CONSIDERATIONS

Appropriate disposal methods : Dispose of waste material in accordance with local, state and federal pollution regulations.
Contaminated packaging : When disposing of an empty container, dispose after removing contents materials completely. Dispose of this material and its container according to your country law.

14. TRANSPORT INFORMATION

International Regulations

UN number : Not regulated
UN proper shipping name : Not regulated
Class : Not regulated
Packing group : Not regulated

Sea transport
IMDG-Code : Not dangerous goods.

Air transport
ICAO-TI/IATA-DGR : Not dangerous goods.

Land transport
DOT : Not dangerous goods.
ADR/RID : Not dangerous goods.

15. REGULATORY INFORMATION

Follow all regulations in your country.

16. OTHER INFORMATION

Literature Reference : SDS of raw material manufacturer
NITE: Chemical Risk Information Platform

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3E: Ariel Research Tool
ECHA: Information on Chemicals

Revision date : Jun.17.2020

Further information

The information contained herein is based on the current knowledge. This Safety Data Sheet is intended to describe our products in correctness of safety requirements. It should not therefore be construed as guaranteeing specific properties. The data applies to only usual handing.