

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Product name : High Density Ink HD119 Date Prepared : 02.10.2012
SDS Number : 12A081 Revision Date : 14.09.2017

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : High Density Ink HD119

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

Use of the substance/mixture : Ink for ink jet printer

1.3 Details of the supplier of the safety data sheet

Company : GENERAL CO., LTD.
18, Satsukigaoka, Minakuchi-cho, Koka-shi, Siga 528-0062, Japan

Telephone : +81-748-65-2260

Fax : +81-748-63-1922

E-mail : qa_1@general.co.jp

1.4 Emergency telephone number : +81-748-65-2260

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008
: This product is not classified according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008

Hazard pictograms : Not applicable

Signal word : Not applicable

Hazard statements : Not applicable

Precautionary statements : Not applicable

2.3 Other hazards

None known

3. Composition/information on ingredients

3.1 Chemical characterization : Mixture

3.2 Ingredients

Components	CAS No.	EC Number	Contents (wt %)	Classification (EC) No 1272/2008
Water	7732-18-5	273-791-2	> 60	Not classified
2-pyrrolidinone	616-45-5	210-483-1	< 15	Not classified
Glycol	6920-22-5	230-029-6	< 10	Eye Irrit. 2: H319
Carbon Black	1333-86-4	215-609-9	< 5	Not classified
Black Dye	Confidential	Confidential	< 5	Not classified

4. First aid measures

4.1 Description of first aid measures

General advice : When symptoms persist or in all cases of doubt seek medical advice.
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.

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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.

Information for doctor : No information is available.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of immediate medical attention and special treatment needed

No further relevant information available.

5. Firefighting measures

5.1 Extinguishing media

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

Unsuitable extinguishing media : No information available.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides will form in fire.

5.3 Advice for firefighters

Fight fire from the windward side if possible.

Wear suitable protective suit and self-contained breathing apparatus.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment as specified in section 8.

6.2 Environmental precautions

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

6.3 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.

Large spills: dike far ahead of liquid spill for later disposal.

6.4 Reference to other sections

Refer to Section 7, 8 and 13.

7. Handling and storage

7.1 Precautions for safe 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.

Wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Do not store ink in high or freezing temperature. Keep away from heat and direct sunlight.

Do not store ink with acids, oxidizing agents or explosives.

Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3 Specific end uses

No further relevant information available.

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8. Exposure controls/personal protection

8.1 Control parameters

Components	CAS No.	EU-OEL (TWA)	EU-OEL (STEL)
2-pyrrolidinone	616-45-5	Not determined	Not determined
Glycol	6920-22-5	Not determined	Not determined
Carbon Black	1333-86-4	3.5 mg/m ³	7 mg/m ³

8.2 Exposure controls

Engineering measures

Local Exhaust : 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.

Skin and body protection : Work clothes with long sleeves.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Water type ink
Colour : Black
Odour : No strong odour 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
Upper/lower explosive limits : No data available
Vapour pressure : No data available
Vapour 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 : 1.85 - 2.45 mPa·s (at 25 degrees C)
Explosive properties : This product is considered no explosive material under normal use condition.
Oxidising properties : There is nothing in general storage and handling.

9.2 Other information

No further relevant information available.

10. Stability and reactivity

10.1 Reactivity

No hazardous reactions with proper storage and handling.

10.2 Chemical stability

The product is stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions with proper storage and handling.

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10.4 Conditions to avoid

Extreme high or low temperatures.

10.5 Incompatible materials

Acid and strong oxidizer.

10.6 Hazardous decomposition products

Carbon oxides, nitrogen oxides will form in fire.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity (oral) : 2-pyrrolidinone LD50 (rat) 6500 mg/kg

Acute toxicity (dermal) : 2-pyrrolidinone LD50 (rabbit) >4000 mg/kg

Skin corrosion/irritation : No data available

Serious eye damage/eye irritation : No data available

Respiratory or skin sensitization : No data available

Germ cell mutagenicity : No data available

Carcinogenicity : 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

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

12.1 Toxicity

Toxicity to fish : 2-pyrrolidinone LC50 (96h) (Brachidanio rerio) 4600 mg/L

Toxicity to crustacea : 2-pyrrolidinone EC50 (48h) (Daphnia magna) 3.4 mg/L

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

No further relevant information available.

13. Disposal considerations

13.1 Waste treatment methods

Product : 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.

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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

ADR/RID : Not dangerous goods.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

(EC) No 1907/2006 (REACH)

Annex XIV (Authorisation) : Not regulated
Annex XVII (Restrictions on use) : Not regulated

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H319 : Causes serious eye irritation.

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 handling.