

Material safety data sheet

Section 1. Material and Corporate Identification

Product name

Black Pigment ink for Inkjet Printer

Description

Water based ink-jet ink, Black color

Company

AlphaChem Co.,Ltd

Address

Maetan-dong 407-1, Yeongtong-gu, Suwon-city, Gyeonggi-do,
Korea

Tel. : + 82-31-214-4428

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Section 2. Composition Information

Ingredient and content of ink composition

<u>Ingredients</u>	<u>CAS No.</u>	<u>Contents(%)</u>
Carbon Black	Registered	1 - 5
Acrylic copolymer	Registered	1 - 5
Nonionic Surfactant	Registered	0.1 - 5
Glycerin	56-81-5	5 - 20
Deionized water	-	20 - 90

Section 3. Hazard Identification

Emergency Overview

This health hazard assessment is based on information that is available on the properties of its components.

Potential Health Effects

Skin : Ink contact with skin may cause irritation, swelling, or redness.

Eyes : Ink contact with eye may cause irritating.

Inhalation : Ink vapors may cause respiratory irritation.

Ingestion : May cause upset stomach.

Section 4. First Aid Measures

Critical hazards to man and the environment : none

Skin : Wash material off of the skin with plenty of soap and water. If any other symptom is developed get medical attention.

Eyes : Immediately flush with plenty of water and have eyes examined and treated by medical personnel.

Inhalation : Take affected persons out in the fresh air, if necessary.

Swallowed : Have patient rinsed out mouth with water.

Section 5. Fire Fighting Measures

Non flammable liquid.

No special explosion hazards are known.

Section 6. Accidental Release Measures

Should be handle carefully, can be contaminated color if spilled.

Steps to be taken in case material is released or spilled:

Wear skin protection during cleanup. Contain spill and keep out of sewers and drains. Soak up material with absorbent and shovel into a chemical waste container. Wash residue from spill area with water and flush to a sewer serviced by a wastewater treatment facility. Use care to minimize the amount of colored material that reaches the sewer.

Section 7. Precautions for Safe Handling and Use

Handling

Keep out of children and do not drink ink.

A container is sealed each time.

Wear suitable protection implements(glove, apron, etc) for work.

Storage

Do not store the ink and ink cartridge in the high or freezing Temperatures.

Keep ink and ink cartridge out of direct sunlight.

Do not dismantle cartridge.

Do not store cartridge with oxidizing agents or explosives.

Section 8. Exposure Controls and Personal Protection

Exposure Controls : None required.

Ventilation : Use ventilation for the safety air conditions.
If needed, use gloves, apron, mask, goggles.

Personal Protection : None required when ink and ink cartridges are used as intended.

Section 9. Physical and Chemical Properties

Shape and appearance : black color, liquid

Odour : distinct.

Specific gravity : 1.05

Solubility in water : Fully miscible

Solubility in other solvents : depends on solvent sort.

Flash point : Non-flammable liquid

Boiling point : over 100 °C

pH value : 7.5 ~ 10.0

Viscosity : 2.5-6.0 cps at 25°C

Hazardous reactions : None

Section 10. Stability and reactivity

Hazardous decomposition product : None

No dangerous reaction will occur with correct handling and storage.

Section 11. Toxicological Information

Routes of Overexposure : Eye, skin, inhalation, and oral

Acute Health Hazards :

Overexposure of eye surface to ink may be mildly irritating.

Overexposure of skin to ink contact may cause irritation and in some people swelling and redness.

Intentional inhalation overexposure to ink vapors may result in respiratory tract irritation.

Intentional or accidental oral ingestion may cause an upset stomach.

Chronic Health Hazards : None known

Section 12. Ecological Information

Follow the appearance cautions which do not affect environment in the cases, such as abandonment, at the time of disclosure.

Section 13. Disposal considerations

Container disposal

Empty container retains product residue.

Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product.

Section 14. Transport Information

Common

General cautions of the clause of the cautions on handling and storage are followed.

Land transportation

When it corresponds to Fire Service Law and labor security and hygiene law, the place appointed about transportation of a statute is followed.

Marine transportation

The place set to Law for Safety of Vessels is followed.

Air transportation

The place set to the Aviation Act is followed.

Section 15. Regulatory Information

CERCLA section 103(40CFR302.4): N

SARA section 302(40CFR355.30): N

SARA section 304(40CFR355.40): N

SARA section 313(40CFR372.65): N

SARA hazard categories, SARA section 311/312(40CFR370.21):

Acute: N / Chronic: N / Fire: N / Reactive: N / Sudden release: N

OSHA process safety (29CFR1910.119) : N

State regulations :

California proposition 65 : N

European regulations :

EC number : Not assigned.

Section 16. Other Information

This MSDS contains health, safety, and environmental information and it was created based on the data which can come to hand at present, information, and data since evaluation of danger and detrimental nature is not necessarily enough, be careful of handling enough.