

Product Name: HS ink Black SDS No. 037-S067112 First issue: 2021/12/16

Revised:

#### 1. Identification

Product Name : HS ink Black

Order No. : SPC-0473K-5, SPC-0589K-5

General Use : Ink for ink jet printer
Product Description : Solvent pigment ink

Manufacture

Company Name : Mimaki Engineering Co., Ltd.

Address : 2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN

Telephone No. : +81-268-64-2413

Importer / Distributor Information

Company Name : MIMAKI AUSTRALIA PTY LTD.

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Emergency Telephone No. : +61 2 8014 4558 (within Australia only)

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## 2. Hazards Identification

[GHS Classification]

Physical Hazards

Flammable Liquids : Category 4

Health Hazards

Specific Target Organ Toxicity : Category 3 (Narcotic effects)

(Single Exposure)

**Environmental Hazards** 

Hazardous to the Aquatic : Category 2

Environment - Acute Hazard

The above list does not include category being non-classifiable or not-applicable.



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[GHS Label Elements] Symbol





Signal Word Danger

**Hazard Statements** 

H227 Combustible liquid

H315 Cause skin irritation

H318 Cause serious eye damage

H336 May cause drowsiness or dizziness

H401 Toxic to aquatic life

### **Precautionary Statements**

[Prevention]

P210 Keep away from heat/sparks/open flames/hot surfaces.-No smoking.

P261 Avoid breathing gas/mist.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

[Response]

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P321 Specific treatment (see 4-Response on our website/SDS URL:

www.mimaki.co.jp/sds).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash before reuse.

P370+P378 In case of fire: Use appropriate media for extinction.

[Storage]

P403+P233+P235 Store in a well-ventilated place. Keep container tightly closed.

Keep cool.

P405 Store locked up.

[Disposal]

P501 Dispose of contents and container in accordance with local, regional, national and international regulation.

#### 3. Composition / Information on Ingredients



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# Safety Data Sheets

No	Chemical Name	Wt%	CAS No.
1	Carbon black	0.1-5	Registered
2	Cupper compound	0.1-5	Registered
3	Vinyl chloride / Vinyl acetate copolymer resin	0.1-5	Registered
4	Polyester resin	0.1-5	Registered
5	Dipropylene glycol methyl ether acetate	10-20	88917-22-0
6	Dipropylene glycol dimethyl ether	30-60	111109-77-4
7	Gamma-Butyrolactone	10-40	96-48-0
8	Additives	0.1-5	Registered

#### 4. First Aid Measures

Inhalation : If inhaled, immediately remove to fresh air and keep warm and

calm. If breathing irregularly or not breathing, give artificial

respiration and consult a doctor immediately.

Eye Contact : Flush eyes thoroughly with water for at least 15 minutes. Remove

contact lenses, if present and easy to do. Consult an ophthalmologist

immediately.

Skin Contact : Wash skin thoroughly with plenty of water. If on clothing, remove

immediately contaminated clothing.

: Treat symptomatically and supportively.

Ingestion : Do not induce vomiting. If swallowed, keep calm and consult a

doctor immediately. Keep from swallowing vomit.

Protection To First-Aiders : Wear tools for appropriate protection. Ventilate. See section 7 and 8.

Indication of Immediate

Medical Attention and

Special Treatment

Needed, If Needed

#### 5. Fire Fighting Measures

Flammable Properties : Avoid breathing combustion products.

Flash point : 74°C

Ignition point : Not available

Explosion point :  $0.85 \sim 15.60 \text{ vol}\%$ 

Extinguishing Media : Foam, carbon dioxide, dry chemical, water spray

Unsuitable Extinguishing : Do not scatter spilled material with high-pressure water streams



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Media

Fire Fighting Measures

: Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Avoid inhalation of material or combustion by-products. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. If this is impossible then take the following precautions: Keep unnecessary people away, isolate hazard area and deny entry. Let the fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire.

Special Protective

Equipment and

Precautions for

Firefighters

: Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible

exposure.

#### 6. Accidental Release Measures

Personal Precautions,
Protective Equipment
and Emergency
Procedures

: Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.



Revised:

Methods and Materials for Containment and Cleaning Up : Eliminate all ignition sources if safe to do so. Stop leak if possible without personal risk. Reduce vapors with water spray.

**Small spills:** Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

**Large spills:** Dike for later disposal. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.

# 7. Handling and Storage

Handling : Keep away from heat/sparks/open flames/hot surfaces.-No smoking.

Avoid breathing gas/mist. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye

protection/face protection.

Storage : Store and handle in accordance with all current regulations and

standards. Keep container tightly closed. Keep cool. Grounding and bonding required. Store locked up. Keep separated from incompatible

substances.

#### 8. Exposure Controls / Personal Protection

## **Exposure Limit Values**

No	Chemical Name		TWA
	Carbon black	ACGIH	3 mg/m3 TWA (inhalable fraction)
		OSHA	3.5 mg/m3 TWA
1		NIOSH	3.5 mg/m3 TWA; 0.1 mg/m3 TWA (Carbon black in
			presence of Polycyclic aromatic hydrocarbons, as
			PAH)



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## **Exposure Controls**

Occupational Exposure Controls

Engineering Controls : Ventilation equipment should be explosion-resistant if explosive

concentrations of material are present. Provide local exhaust or process enclosure ventilation system. Ensure compliance with

applicable exposure limits.

Personal Protection

Respiratory : Wear protective masks for hazardous materials.

Protection



Hand Protection : Wear gloves resistant to organic solvents and chemicals.

Gloves

**Eve Protection** 

: Wear coverall, chemical goggles and face shield when handling.



Skin Protection



: To prevent any contact, wear impervious clothing such as gloves,

apron, boots, or whole body suits made from neoprene, as

appropriate.

**Environmental Exposure Controls** 

: Not available

## 9. Physical and Chemical Properties

Appearance - Physical State : liquid (25°C)

- Color : Black

Odor : Solvent odor pH : Not available Boiling Point / Boiling Range :  $175\sim209$  °C Melting Point / Melting Range : <-30°C



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# Safety Data Sheets

Flash Point : 74°C

Flammability (Solid, Gas) : Not Applicable Upper / Lower Flammability or :  $0.85 \sim 15.60 \text{ vol}\%$ 

**Explosive Limits** 

Vapor Pressure : 257Pa (20°C)

Vapor Density : 6.6

Relative Density  $: 1.00 (25^{\circ}\text{C})$ 

Solubility (Ies) : Very small amount

Partition Coefficient (n-octanol / Water) : Not available

Viscosity  $: 4.0 \text{ mPa} \cdot \text{s} (25^{\circ}\text{C})$ 

## 10. Stability and Reactivity

Conditions to Avoid : Excessive heat and cold, sparks, ignition sources, direct sunlight and

high humidity. Gamma-Butyrolactone is hydrolyzed by thermal

decomposition.

Stability : Stable

Materials to Avoid : Oxidant, reducing agent, strong acid, strong base, inert gas,

deoxidant

Hazardous Reactions /

: Combustion: toxic gases, oxides of carbon, oxides of nitrogen

**Decomposition Products** 

Other : Plastic and rubbers might be melted.

#### 11. Toxicological Information

Acute Toxicity :

	Oral	Dermal
	(rat)	(rabbit)
	LD50	LD50
Product	>2,000mg/kg	>2,000mg/kg
	Not classified	Not classified

Eye Contact : eye damage
Skin Contact : irritation
Sensitization : Not Available
Mutagenicity : Not Available



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Carcinogenicity : Component Carcinogenicity

Carbon black (1333-86-4) (Not possible to classify as a printing ink)

ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown
ACGIH.	Relevance to Humans
IADO	Monograph 93 [2010]; Monograph 65 [1996] (Group
IARC:	2B (possibly carcinogenic to humans))
DFG:	Category 3B (could be carcinogenic for man,
DrG.	inhalable fraction)
OSHA:	Present

Specific Target Organ

Toxicity - Single

Exposure

Specific Target Organ

Toxicity - Repeated

Exposure

Reproductive and

: Not Available

: Not Available

: drowsiness or dizziness

**Developmental Toxicity** 

Others : Not Available

# 12. Ecological Information

Handling is noted because it might influence the environment when

leaking and abandoning it.

Especially, note that the product doesn't flow directly to ground, the

river, and the drain ditch.

Ecotoxicity : Hazardous to the Aquatic Environment - Acute Hazard

Calculated value : L(E)C50 >5.0mg/L Category 2

Persistence and : Not available

Degradability

Bioaccumulative : Not available

Potential

Other Adverse Effects : Not available



Revised:

## 13. Disposal Considerations

Have waste inks, containers and other materials disposed by licensed industrial waste disposer.

Adsorb to diatom earth and others to dispose waste inks, and use open incinerator.

Dispose of wastes by licensed industrial waste disposer to comply with the local laws and regulations. Empty inks and other materials out of containers if disposed.

Do not dump this product into sewers, on the ground or into any body of water.

## 14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

UN Number : Not Applicable

## 15. Regulatory Information

Australia Regulations

No main regulation

## 16. Other Information

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Mimaki Engineering Corporation.

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