

Material Safety Data Sheets

1. Product and Company Identification

Product Name	: Pigment Ink 3 For Textile Black
Product Code	: SPC-0607K
General Use	: Ink jet printing ink
Product Description	: Pigment ink
MSDS Number	: 031-35W14KC
Manufacture	
Company Name	: Mimaki Engineering Co., Ltd
Address	: 2182-3 Otsu, Shigeno, Tomi-shi, Nagano 389-0512 Japan
Telephone No.	: +81-268-64-2413
Importer/Distributor Established in USA	
Company Name	: MIMAKI USA. INC.
Address	: 150 Satellite Boulevard, suite A, Suwanee, Georgia 30024, U.S.A
Telephone No.	: 1-678-730-0100
Emergency Telephone No.	: +81-268-64-2413

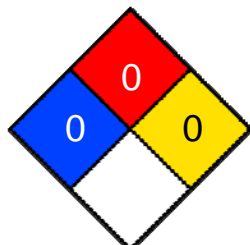
2. Hazards Identification

Hazard description:	: Not applicable.
Information pertaining to Particular dangers for man and environment:	: The product does not have to be labeled due to the calculation procedure of international guidelines.
Classification system:	: The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
Eye Contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell.
Skin Contact	: Get medical advice/attention.
Ingestion	: Material is possibly harmful if swallowed. Material can cause the following: abdominal pain, vomiting, nausea, depression, diarrhea, gastrointestinal irritation, dizziness.
IF exposed or concerned:	Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell.

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Disposal: : Dispose of contents/container in accordance with local/regional/national/international regulations.

NFPA ratings (scale 0-4)



Health=0
Fire=0
Reactivity=0

HMIS - ratings (scale 0-4)

HEALTH	0
FLAMMABILITY	0
REACTIVITY	0

Health=0
Flammability=0
Reactivity=0

3. Composition / Information On Ingredients

No	Chemical Name	Wt%	CAS No.	Chemical Formula
1	Carbon black	1-5%	1333-86-4	-
2	Water, distilled, conductivity or of similar purity	60-70%	7732-18-5	H ₂ O
3	Wetting agent	20-30%	Trade Secret	Trade Secret
4	Resin	1-5%	Trade Secret	Trade Secret

OSHA Hazardous Components (29 CFR 1910. 1200) : This product is considered hazardous under the OSHA Hazard Communication Standard.

4. First Aid Measures

General Information: No special measures required.
 After Inhalation: Supply fresh air, consult doctor in case of complaints.
 After Skin Contact: Generally the product does not irritate the skin.
 After Eye Contact: Rinse opened eye for several minutes under running water.
 After Swallowing: If symptoms persist consult doctor.

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5. Fire Fighting Measures

SUITABLE EXTINGUISHING AGENTS: CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

PROTECTIVE EQUIPMENT: No special measures required.

6. Accidental Release Measures

Person-Related Safety Precautions:

Not required.

Measures For Environmental Protection:

Do not allow to enter sewers/ surface or ground water.

Measures For Cleaning/ Collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Additional Information:

No dangerous substances are released.

7. Handling And Storage

Handling:

- Information for safe handling: No special measures required.
- Information about protection against explosions and fires: No special measures required.

Storage:

- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.

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8. Exposure Controls / Personal Protection

8.1 Exposure Limit Values

No	Chemical Name	
1	Carbon black	PEL 3.5 mg/m ³
		REL 3.5 mg/m ³ (*0.1 in presence of PAHs, as PAHs; 10-hr TWA)
		TLV 3.5 mg/m ³

8.2. Exposure controls

8.2.1. Occupational exposure controls

General Protective And Hygienic Measures: The usual precautionary measures for handling chemicals should be followed.

Breathing Equipment: Not required.

Hand Protection:



Gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material Of Gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration Time Of Glove Material:

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

9. Physical And Chemical Properties

Appearance - Physical state : liquid
- Colour : black

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Odour	: Characteristic
pH	: 7.0 - 9.5
Boiling Point / Boiling Range	: 100 °C (212.00 °F) Water
Melting Point / Merging Range	: Not available
Decomposition Temperature	: Not available
Flash Point	: Noncombustible
Auto-Ignition Temperature	: Not available
Flammability(solid, gas)	: Not available
Vapour Pressure	: Not available
Specific Gravity	: 0.95 - 1.10
Solubility	: Not available
Water solubility	: Dilutable
Viscosity	: 3.000 – 5.000 mPa.s
Vapour density	: <1.0 Water
Evaporation Rate	: <1.00 Water

10. Stability And Reactivity

Thermal Decomposition: No decomposition if used according to specifications.

Dangerous Reactions: No dangerous reactions known.

Dangerous Products Of Decomposition: No dangerous decomposition products known.

11. Toxicological Information

The following toxicological data shown are those obtained from tests on products of similar composition.

ACUTE TOXICITY:

	Oral LD ₅₀	Dermal LD ₅₀	Inhalant LC ₅₀

EYE IRRITATION: No irritating effect.

SKIN IRRITATION: No irritating effect.

SENSITIZATION: No sensitive effects known.

ADDITIONAL: The product is not subject to classification according to internally

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TOXICOLOGICAL INFORMATION: approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12. Ecological Information

GENERAL NOTES Water hazard class 1 (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. Disposal Considerations

Disposal:

- **Product:**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14. Transport Information

- Maritime transport IMDG:
- Marine pollutant: No

15. Regulatory Information

· **Sara**

Section 355 None of the ingredient is listed.

(extremely hazardous substances):

Section 313 None of the ingredients is listed.

(Specific toxic chemical listings)

TSCA (Toxic Substances Control All ingredients are listed.

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Act):

- **Proposition 65**

Chemicals known to cause cancer:	1333-86-4 Carbon black
Chemicals known to cause reproductive toxicity for females:	None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for males:	None of the ingredients is listed.
Chemicals known to cause developmental toxicity:	None of the ingredients is listed.

- **Carcinogen categories**

EPA (Environmental Protection Agency):	None of the ingredient is listed.
IARC (International Agency for Research on Cancer)	1333-86-4 Carbon black
NTP (National Toxicology Program)	None of the ingredient is listed.
TLV (Threshold Limit Value established by ACGIH)	1333-86-4 Carbon black
NIOSH-Ca (National Institute for Occupational Safety and Health)	1333-86-4 Carbon black
OSHA-Ca (Occupational Safety & Health Administration)	None of the ingredient is listed.

- **Product related hazard informations:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations to directives on hazardous materials.

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16. Other Information

Abbreviations and
acronyms:

IMDG: International Maritime Code for Dangerous Goods

GHS: Globally Harmonized System of Classification and Labelling of
Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

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Revision history

Version	Date	Content
1.0	Apr 6, 2009	First issue