

SAFETY DATA SHEET

Date of issue: : 25 June 2024

Version: 5.00

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Product name : Water based pigment ink contained in YOKEN PD-W
 Color : Black
 Recommended use : Writing and /or marking on paper.
 Company name : TAIYOSHA CHEMICAL FACTORY LTD
 Company address : 21-11, 3-CHO, TOKIWA-CHO, KITA-KU, SAKAI, OSAKA, JAPAN
 TEL : +81-72-252-2811
 FAX : +81-72-252-2831
 Emergency phone number :

2. HAZARDS IDENTIFICATION

GHS classification

PHYSICAL HAZARDS	Explosives	Not applicable
	Flammable liquids	Not applicable
	Flammable solids	Not applicable
	Self-reactive substances and mixtures	Not applicable
	Pyrophoric liquids	Not classified
	Pyrophoric solids	Not applicable
	Oxidizing liquid	Not applicable
	Oxidizing solids	Not applicable
	Organic peroxides	Not applicable
	Corrosive to metals	Classification not possible
	HEALTH HAZARDS	Acute toxicity(oral)
Acute toxicity(dermal)		Not classified
Acute toxicity(inhalation gases)		Classification not possible
Acute toxicity(inhalation vapoursgases)		Classification not possible
Acute toxicity((inhalation dusts and mists)		Classification not possible
Skin corrosion/irritation		Category 1
Serious eye damage/Eye irritation		Category 2
Respiratory		Classification not possible
Skin sensitization		Category 1
Germ cell mutagenicity		Classification not possible
Carcinogenicity	Category 2	

	Specific target organ toxicity (Single exposure)	Category 1
	Specific target organ toxicity (Repeated exposure)	Category 1
	Aspiration Hazard	Classification not possible
Environmental Hazards	Acute hazards to the aquatic environment	Not classified
	Chronic hazards to the aquatic environment	Classification not possible
	Hazardous to the ozone layer	Classification not possible

Pictogram



Signal Word : Danger

Hazard Statement : H319 Cause serious eye irritation
H351 Suspected of causing cancer
H372 Causes damage to organs

Precautionary statements : P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
[Prevention] P264: Wash hands thoroughly after handling.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

[Emergency Response] P302 + P352 – IF ON SKIN : Wash with plenty of water and soap.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P337+P313: If eye irritation persists,: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance or Mixture : Mixture

Chemical name	Content	CAS Registry number
Carbon black	10-20 %	1333-86-4
Ammonia, aqueous solution (25%)	0.1-1%	1336-21-6
Propan-2-ol	0.1-1%	67-63-0
Ethane-1,2-diol	0.1-1%	107-21-1
2-Aminoethanol	0.1-1%	141-43-5
Ethylene diamine	0.1-1%	107-15-3
1,2-benzisothiazolin-3-one	0.1-1%	2634-33-5
Water	50-60%	7732-18-5

4. FIRST-AID MEASURES

- General information Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- Eye Contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, Get medical advice/attention.
- Skin Contact : If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention.
- Inhalation : Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
- Ingestion : If swallowed, wash out the mouth. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Fire Fighting : Remove all sources of ignition and extinguish with

5. FIRE-FIGHTING MEASURES

- Fire Fighting Remove all sources of ignition and extinguish with the designated extinguisher.
- Extinguish Media Water spray, foam, dry chemical powder, carbon dioxide.
- Hazardous products of combustion : Carbon oxides, Nitrogen oxides etc.

6. ACCIDENTAL RELEASE MEASURES

- In case of small quantity : Wipe off with material such as waste cloth.
- Environmental precautions : Must not be released into sewers, drains, or wells.

7. HANDLING AND STORAGE

- Handling : Avoid the damage to the container.
- Storage : Must be stored in a well-ventilated area, away from sunlight, ignition sources and other sources of heat. Stir the product before use when stored for a long time.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- Exposure Limits : ACGIH : 100mg/m³ (aerosol, upper) (Ethane-1,2-diol)
- Equipment : Install the local exhaust ventilator and eyewash stations.
- Personal Protection : Wear safety eyewear, protective gloves and protective mask.

9. PHYSICAL AND CHEMICAL PROPERTIES

- | | | | |
|--|-----------------------|---|-----------------|
| Appearance | : Black liquid | Relative density; | : Not available |
| Odor | : Characteristic odor | Solubility (Water) | : Soluble (Ink) |
| p H | : Not available | Partition coefficient-
octanol/water | : Not available |
| Boiling point | : Appx. 100 °C | | |
| Flash point | : Not available | | |
| Upper/lower
flammability or
explosive limits | : Not available | | |

1 0. STABILITY AND REACTIVITY

Product stability	: Stable under normal storage condition
Possibility of hazardous reactions	: Not available
Condition to avoided	: Heat, Fire
Incompatible materials	: Strong oxidizer, Strong Acid, Strong base
Hazardous decomposition	: Carbon oxides, Nitrogen oxides etc.

1 1. TOXICOLOGICAL INFORMATION

Acute toxicity(oral)	LD50(oral) > 5,000 mg/kg (calculated value)
Acute toxicity(dermal)	LD50(skin) > 5,000 mg/kg (calculated value)
Acute toxicity(inhalation)	LC50(inhalation) > 50 mg/L (calculated value)
Skin corrosion/irritation	Information of Carbon Black / propylene glycol
Serious eye damage/irritation	Information of Carbon Black / propylene glycol
Carcinogenicity	Information of Carbon Black

1 2. ECOLOGICAL INFORMATION

Acute hazards to the aquatic environment	No information available
Biodegradation	No information available
Bioaccumulation	No information available

1 3. DISPOSAL CONSIDERATIONS

Local regulations should be adhered to.

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

1 4. TRANSPORT INFORMATION

Markers can transport as general cargo.

However, ink shall be applied the following regulation

UN classification	: Not applicable
UN Number	: Not applicable
Land-Road/ Railway	: Not applicable
Inland waterways	: Not applicable
Sea	: Not applicable
Air	: Not applicable

1 5. REGULATORY INFORMATION

Please refer to (any other) national measures that may be relevant.

1 6. OTHER INFORMATION

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