

SAFETY DATA SHEET (SDS)

According to 1907/2006/EC, Article 31

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S.D.S. NO. PW-5

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

TRADE NAME: #310,#315,#320,#410,#415

INK NAME: PW-5

Color: BLACK - All Colors

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

Water based pigment ink.

Manufacturer/Supplier

Uchida of America, Corp

3535 Del Amo Blvd. Torrance, California 90503

Tel: (800) 541-5877 or (310) 793-2200

Fax: (800) 229-7017 or (310) 793-2210

2. Hazards identification.

Classification of the substance or mixture

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

Label elements

Not applicable

Hazard statements

Not applicable

Precautionary statements

Not applicable

3. Composition/information on ingredients.

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Chemical name	% Range	Cas	EINECS	Description	GHS Symbols
Ethyl Alcohol	<3				
Isopropyl Alcohol	<2				
Acryl Polymer	<10				
Water	60-80				
Pigments	15-20				

SVHC

This product does not intentionally contain any Substance of Very High Concern (SVHC) on the European Chemicals Agency (ECHA) candidate list. Analysis There is no data.

4. First Aid measure.

Description of first aid measures

After Inhalation	Remove from exposure, rest and keep warm. In severe cases, seek medical attention.
After Skin Contact	Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse. If irritation persists seek medical attention.
After Eye Contact	Irrigate thoroughly with water for at least 10 minutes. Obtain medical attention.
After Ingestion	Wash out mouth with water. Do not induce vomiting. Seek immediate medical attention.
After Swallowing	Seek immediate medical advice.

Information for doctor

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5. Fire fighting measures.**Extinguishing media**

Suitable Extinguishers Dry chemical, Foam or water jet.

Unsuitable Extinguishers n.a.

Hazardous Combustion Products CO, CO₂, NO_x, Smoke.

Special Equipment for Fire Fighting Self contained breathing apparatus.

6. Accidental Release measures.**Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Keep away from ignition sources.

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

Methods and material for containment and cleaning up

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents.

Absorb in pieces of cloth, vermiculite, or dry sand and clean up with a wet cloth.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. Handling & Storage.**Handling****Precautions for safe handling**

Store in cool, dry place in tightly closed receptacles.

Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires

Keep ignition sources away – Do not smoke.

Protect against electrostatic charges.

Conditions for safe storage, including any incompatibilities Storage

Requirements to be met by storerooms and receptacles: Store in a cool location.

Further information about storage conditions

Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.

Specific end use(s) No further relevant information available.

8. Exposure Controls/personal protection.

Additional information about design of technical systems: No further data; see item 7.

Protective Measures

Respiratory n.a.

Hand n.a.

Eye Safety goggles.

Skin n.a.

Hygiene Measures n.a.

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Control parameters

CAS 64-17-5 Ethyl Alcohol

ACGIH 1880mg/m³ 1000ppm (TWA)

CAS 67-63-0 Isopropyl Alcohol

ACGIH 200ppm(skin) (TLV-TWA)

400ppm(skin) (TLV-STEL)

Additional information: PEL = Permissible Exposure Limit (OSHA)
TLV= Threshold Limit Value (ACGIH)
OSHA= Occupational Safety and Health Administration
ACGIH= American Conference of Governmental Industrial Hygienists

9. Physical & Chemical Properties.

Information on basic physical and chemical properties

General Information

Appearance	Liquid
Odor	Slightly
Boiling Point/range *	100-110°C
Freezing Point/range *	-10-0°C
Flash Point *	n.a.
Auto-ignition temperature *	n.a.
Explosive limits *	n.a.
Vapor Pressure *	n.d.
Relative density	1.1-1.3
Solubility	Water: Miscible Solvent: Alcohol slightly.

(* Solvent Data)

10. Stability & Reactivity.

Stability	Stable under normal conditions.
Known Hazardous reactions	Reactions with acids forms Hydrogen gas (flammable).
Conditions to avoid	Heat, high temperature and fire sources.
Materials to avoid	Acids, Oxidizing agents.
Hazardous decomposition products	CO, CO ₂ , NO _x

11. Toxicological Information.

Information on toxicological effects Acute toxicity

Low acute oral toxicity, however ingestion may cause systemic effects such as damage liver and kidneys which may become apparent later. High vapor concentrations are irritating to mucous membranes and the respiratory tract. Slight to moderate eye and skin irritant. No reported evidence of carcinogenic, mutagenic or adverse reproductive effects.

12. Ecological Information.

Toxicity

Aquatic toxicity: No further relevant information available.

Additional ecological information: Ecological data are not available.

General notes

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

13. Disposal considerations.**Waste treatment methods****Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Disposal must be made according to official regulations.

Uncleaned packagings

Recommendation: Disposal must be made according to official regulations.

14. Transport Information.

UN number	n.a.
Transport hazard class(es)	n.a.
Packing Group	n.a.
Emergency Action Code	n.a.

15. Regulatory Information.

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

USA The following information relates to product regulation specific to the USA.

Use of this material may be governed by the following regulations

16. Other Information.

This material is usually used for:	Marking pen ink.
It must not be used for:	Avoid high temperature.

Legal Disclaimer

The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specification of the product. The user must satisfy himself that the product is entirely suitable for his purpose.

Not applicable: n.a.

Not determined: n.d.

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