

## MATERIAL SAFETY DATA SHEET

# JP-W73 Pigmented Ink

THIS MATERIAL SAFETY DATA SHEET CONFORMS TO THE REQUIREMENTS OF ANSI Z400.1.

THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (OSHA HAZARD COMMUNICATION STANDARD).

IMPORTANT: READ THIS MSDS BEFORE HANDLING OR DISPOSING OF THIS PRODUCT.

## **SECTION I - PRODUCT & COMPANY IDENTIFICATION**

Hitachi America, Ltd

MANUFACTURER / DISTRIBUTOR 50 Prospect Avenue

Tarrytown, NY 10591

PRODUCT NAME JP-W73 Pigmented Ink

MATERIAL USES Industrial coding applications; Ink Jet Printers

PRODUCT CODE N/A

Non-Emergency Phone 914-524-6685

EMERGENCY PHONE CHEMTREC (800) 424-9300

## SECTION II - COMPOSITION / INFORMATION ON INGREDIENTS

CAS#	PERCENT RANGE (%)	
78-93-3	45-55	
64-17-5	1-10	
67-56-1	1-3	
71-36-3	1-3	
13463-67-7	5-10	
	78-93-3 64-17-5 67-56-1 71-36-3	

#### **SECTION III - HAZARDS IDENTIFICATION**

#### HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS)

HEALTH	1	FLAMMABILITY	3	REACTIVITY	0	PERSONAL PROTECTION	В
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NOTICE: THESE RATINGS ARE FOR GENERAL RAPID INTERPRETATION. THE END-USER IS RESPONSIBLE FOR DETERMINING THE PROPER PROTECTIVE PROCEDURES.

EMERGENCY OVERVIEW **Warning!** Flammable Liquid and Vapor. Skin, Eye and Mucous Membrane Irritant. Do not use near fire or flame. May be fatal or cause blindness if swallowed. Avoid contact with skin, eyes and mucous membranes. If skin contact occurs, wash skin with mild soap and water. If splashed in eyes, flush with water. If inhaled, remove to fresh air. In medical emergency contact Poison Control Center (USA 800.222.1222). Read MSDS before using.





**RISK STATEMENTS** 

R11 Highly Flammable

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed Irritating to eyes, respiratory system and skin

R66 Inhalation of vapors can provoke sleepiness and dizziness

#### SAFETY STATEMENTS

S2 Keep away from children.

S7 Keep container tightly closed

S16 Keep away from sources of ignition - No Smoking!

S25 Avoid contact with eyes

S36/37 Wear suitable protective clothing and gloves

In case of accident or if you feel unwell, seek medical advice immediately (show the label where

possible)

## **SECTION IV - FIRST AID MEASURES**

ORAL INGESTION Do not induce vomiting unless directed to do so by medical personnel. Seek immediate medical attention.

EYE CONTACT Flush with water for 15 minutes and seek medical attention.

SKIN CONTACT Wash with soap and water. Wash contaminated clothing before reuse. Seek immediate medical attention.

INHALATION Remove to fresh air, if not breathing, give artificial respiration and seek medical attention.

## **SECTION V - FIREFIGHTING MEASURES**

**EXTINGUISHING MEDIA HAZARDOUS COMBUSTION PRODUCTS** 

Alcohol Resistant foam or dry chemical Carbon Monoxide, Carbon Dioxide

FIRE FIGHTING PROCEDURES

Wear self-contained breathing apparatus with full facepiece operated in the positive pressure demand mode.

#### SECTION VI - ACCIDENTAL RELEASE MEASURES

Keep away all sources of ignition from spill. If spill is indoors, ventilate areas of spill and soak up the spill with absorbent material. Do not let spilled or leaking material enter watercourse.

#### SECTION VII - HANDLING AND STORAGE

**HANDLING** Avoid contact with eyes. Wash hands thoroughly with soap and water after handling. Utilize proper grounding with containers of material.

Protect from freezing. Overheating may cause container to rupture. Covered storage in a cool, dry place out of direct sunlight is **S**TORAGE

preferable. Keep container tightly sealed until ready for use. Store away from ignition sources.

#### SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

If workplace exposure limit(s) of product or any other component is exceeded, a NIOSH/OSHA approved respirator is advised. (See RESPIRATORY PROTECTION

your safety equipment supplier for specific details.)

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below PEL/TLV. VENTU ATION

**PROTECTIVE GLOVES** Wear chemical resistant gloves. (Consult your safety equipment supplier.)

Wear chemical splash goggles in compliance with OSHA regulations. However, OSHA regulations also permit other types of safety EYE PROTECTION

OTHER PROTECTIVE

Wear impervious clothing and boots to prevent prolonged exposure. **FOUIPMENT** 

OCCUPATIONAL EXPOSURE LIMITS:

**ACGIHTLV\*** OSHA PEL\* INGREDIENT 2-Butanone 200ppm 200ppm Ethanol 1000ppm 1000ppm Methanol 200ppm 200ppm n-Butanol 20ppm 100ppm

**Titanium Oxide** 10mg/m3

#### **SECTION IX - PHYSICAL & CHEMICAL PROPERTIES**

PHYSICAL STATE Liquid COLOR White **O**DOR Solvent odor **BOILING RANGE** No measurement MELTING RANGE No measurement SPECIFIC GRAVITY (WATER=1) ----

DENSITY (lbs / gal) 0.94 - 0.96 (20°C) **EVAPORATION RATE (N-BUTYL ACETATE=1)** 

PERCENT VOLATILE BY VOLUME (%) **VAPOR PRESSURE** 9.5kPa (20°C) VAPOR DENSITY (AIR=1) Greater than air FLASH POINT (TCC) -8.1°C (Closed cup) **AUTO IGNITION TEMPERATURE** > 515 °C UPPER FLAMMABLE LIMIT (%By Vol.) 11.5% LOWER FLAMMABLE LIMIT (%By Vol.) 1.8%

SOLUBILITY IN WATER Miscible **SOLUBILITY IN ORGANIC SOLVENTS** Miscible РΗ Not Applicable

## **SECTION X - STABILITY & REACIVITY**

CONDITION OF INSTABILITY None Known CONDITIONS OF REACTIVITY Not applicable INCOMPATIBILITY Strong oxidizing agents

No

Yes

EXPLOSION DATA (SENSITIVE TO MECHANICAL IMPACT)

EXPLOSION DATA (SENSITIVE TO STATIC DISCHARGE)

## **SECTION XI - TOXICOLOGICAL INFORMATION**

Ingredient	Toxico	LOGICAL INFORMATION**	
2-Butanone	Eye contact	(human)	350ppm
	Skin contact	(rabbit)	500mg/24h
	Inhalation	TC <sub>L0</sub> (human)	100ppm/5min
	Inhalation Oral	$LC_{L0}$ (rat) $LD_{50}$ (rat)	2000ppm/4h 4050mg/kg
Ethanol	Oral	LD <sub>50</sub> (rabbit)	6300mg/kg
		LD <sub>50</sub> (guinea pig)	5560mg/kg
		LD <sub>L0</sub> (human)	6000mg/kg
		LD <sub>L0</sub> (mouse)	220mg/kg
		LD <sub>L0</sub> (dog)	5500mg/kg
		LD <sub>L0</sub> (cat)	6000mg/kg
Methanol	Oral	LD <sub>L0</sub> (human)	340mg/kg
		LD <sub>L0</sub> (mouse)	420mg/kg
		LD <sub>L0</sub> (dog)	6300mg/kg
		LD <sub>L0</sub> (monkey)	7000mg/kg
		LD <sub>L0</sub> (rabbit)	4750mg/kg
		TD <sub>L0</sub> (human)	100mg/kg
	Inhalation	$LC_{50}$ (monkey) $TC_{L0}$ (human)	1000ppm 300ppm
n-Butanol	Oral	LD <sub>50</sub> (rat)	790mg/kg
		LD <sub>50</sub> (mouse)	2680mg/kg
	Inhalation	LC <sub>L0</sub> (rat)	8000ppm/4h
		TC <sub>L0</sub> (mouse)	25ppm

## **SECTION XII - ECOLOGICAL INFORMATION**

ECOTOXICITY Not Available
PERSISTANCE / DEGRADABILITY Not Available
HEAVY METALS Not Available
No other ecological information is available for this product.

## **SECTION XIII - DISPOSAL CONSIDERATIONS**

Absorb in vermiculite, floor absorbent or other non-combustible absorbent material and dispose in licensed facility. Observe all federal, state and local regulations.

## **SECTION XIV - TRANSPORT INFORMATION**

DOT / TDG UN NUMBER & PROPER SHIPPING NAME

UN1210 PRINTING INK

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DOT / TDG HAZARD CLASS

DOT / TDG LABEL FLAMMABLE LIQUID

PACKING GROUP

129 **EMERGENCY RESPONSE GUIDEBOOK NUMBER** 

## **SECTION XV - REGULATORY INFORMATION**

**TSCA** All chemicals used are listed on the TSCA Inventory.

**SARA 313** The following product(s) is (are) listed on SARA 313:

> Methanol Ethanol

California Prop 65 This product contains the following ingredients that the State of California has found to cause cancer, birth defects,

or other reproductive harm, which requires a warning under the statute:

International Regulations

The components of this product are listed on the chemical inventories of the following countries:

Australia, Canada, Europe (EINECS), Japan, Korea, United Kingdom

#### **SECTION XVI - OTHER INFORMATION**

**ISSUE DATE** 04/2007 **REVISION NUMBER** 1 SUPERCEDES N/A Chris Jordan,

PREPARED BY Product

Specialist

#### **DISCLAIMER**

Every effort has been made to ensure that the information in this MSDS is accurate and as complete as reasonably possible and of course all data herein are given in good faith. However, all information is furnished without warranty of any kind, and Hitachi America, Ltd. expressly negates any warranty of accuracy, expressed or implied; and Hitachi America, Ltd. assumes no responsibility for personal injury or damage to property to customers, vendors, or third parties if any information herein proves to be incorrect in any respect. Purchasers are encouraged to make independent determination of suitability and completeness of information from all sources to assure proper use and compatibility of product.

<sup>\*</sup>NIOSH Publication #94-116

<sup>\*\*</sup>Sax's Dangerous Properties of Industrial Mtls. 10th Ed.