

JP-T88-FT Printing 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

MANUFACTURER / DISTRIBUTOR Hitachi America, Ltd
50 Prospect Avenue
Tarrytown, NY 10591

PRODUCT NAME JP-T88-FT Printing 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

INGREDIENT	CAS#	PERCENT RANGE (%)
Methyl Ethyl Ketone [2-Butanone]	78-93-3	35-55
Ethanol	64-17-5	20-30
Propylene Glycol Monomethyl Ether Acetate	108-65-6	4-10
Methanol	67-56-1	2-7
Xylene	1330-20-7	1-2

SECTION III - HAZARDS IDENTIFICATION

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS)

HEALTH	1	FLAMMABILITY	3	REACTIVITY	0	PERSONAL PROTECTION	B
---------------	----------	---------------------	----------	-------------------	----------	----------------------------	----------

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.



F - Highly Flammable



T - Toxic

RISK STATEMENTS

- R11 Highly Flammable
- R23/24/25 Toxic by inhalation, in contact with skin and if swallowed
- R36 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
- S45 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	Alcohol Resistant foam or dry chemical
HAZARDOUS COMBUSTION PRODUCTS	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.
STORAGE	Protect from freezing. Overheating may cause container to rupture. Covered storage in a cool, dry place out of direct sunlight is preferable. Keep container tightly sealed until ready for use. Store away from ignition sources.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION	If workplace exposure limit(s) of product or any other component is exceeded, a NIOSH/OSHA approved respirator is advised. (See your safety equipment supplier for specific details.)
VENTILATION	Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below PEL/ TLV.
PROTECTIVE GLOVES	Wear chemical resistant gloves. (Consult your safety equipment supplier.)
EYE PROTECTION	Wear chemical splash goggles in compliance with OSHA regulations. However, OSHA regulations also permit other types of safety glasses.
OTHER PROTECTIVE EQUIPMENT	Wear impervious clothing and boots to prevent prolonged exposure.

OCCUPATIONAL EXPOSURE LIMITS:

INGREDIENT	ACGIH TLV*	OSHA PEL*
Methyl Ethyl Ketone [2-Butanone]	200	200
Ethanol	1000	1000
Propylene Glycol Monomethyl Ether Acetate	150	100
Methanol	200	200
Xylene	100	100

SECTION IX - PHYSICAL & CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
COLOR	Dark
ODOR	Solvent odor
BOILING RANGE	175° to 177° F
MELTING RANGE	Less than 32° F
SPECIFIC GRAVITY (WATER=1)	0.86 @ 60° F
DENSITY (lbs / gal)	6.99
EVAPORATION RATE (N-BUTYL ACETATE=1)	6.0
PERCENT VOLATILE BY VOLUME (%)	90
VAPOR PRESSURE	83 @ 75° F / 173 @ 100° F
VAPOR DENSITY (AIR=1)	Greater than air
FLASH POINT (TCC)***	25° F
AUTO IGNITION TEMPERATURE	860° F
UPPER FLAMMABLE LIMIT (%BY VOL.)	11.5 @ 77° F
LOWER FLAMMABLE LIMIT (%BY VOL.)	1.8 @ 77° F
SOLUBILITY IN WATER	26.30 @ 68° F
SOLUBILITY IN ORGANIC SOLVENTS	Miscible
pH	5.6

SECTION X - STABILITY & REACTIVITY

CONDITION OF INSTABILITY	None Known
CONDITIONS OF REACTIVITY	Not applicable

INCOMPATIBILITY	Strong oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon Monoxide, Carbon Dioxide
EXPLOSION DATA (SENSITIVE TO MECHANICAL IMPACT)	No
EXPLOSION DATA (SENSITIVE TO STATIC DISCHARGE)	Yes

SECTION XI - TOXICOLOGICAL INFORMATION

INGREDIENT	TOXICOLOGICAL INFORMATION**		
Methyl Ethyl Ketone [2-Butanone]	Ingestion	LD ₅₀ (rat):	2737 mg/kg
	Inhalation 23500mg/L	LC ₅₀ (rat):	8 hrs
Propylene Glycol Monomethyl Ether Acetate	Oral	LD ₅₀ (rat):	8500 mg/kg
	Inhalation	LC ₅₀ (rat):	4345 ppm/6 hrs
Methanol	Oral	LD ₅₀ (rat):	5628 mg/kg
	Inhalation	LC ₅₀ (rat):	64000 ppm/4 hrs
Xylene	Dermal	LD ₅₀ (rabbit):	15800 mg/kg
	Oral	LD ₅₀ (rat):	4300 mg/kg
	Inhalation	LC ₅₀ (rat):	5000 ppm/4hrs
	Dermal	LD ₅₀ (rabbit):	>1700 mg/kg

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
DOT / TDG HAZARD CLASS		3
DOT / TDG LABEL		FLAMMABLE LIQUID
PACKING GROUP		II
EMERGENCY RESPONSE GUIDEBOOK NUMBER		129

SECTION XV - REGULATORY INFORMATION

TSCA	All chemicals used are listed on the TSCA Inventory.
CERCLA	This product contains: Methyl Ethyl Ketone (MEK, 2-Butanone), Methanol and Xylene. If the reportable quantity of this product is accidentally spilled, the incident is subject to the provisions of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and must be reported to the National Response Center by calling 1800-424-8802.
SARA TITLE III	<p>THE REPORTABLE SPILL QUANTITY OF THIS PRODUCT IS 5,000 POUNDS</p> <p>Under the provisions of Title III, Sections 311/312 of the Superfund Amendments and Reauthorization Act, this product is classified into the following hazard categories: Immediate Health, Delayed Health and Fire This information may be subject to the provisions of the Community Right-to-Know Reporting Requirements (40 CFR 370) if threshold quantity criteria are met. This product contains the following Section 313 Reportable Ingredients:</p> <p>Methyl Ethyl Ketone [2-Butanone] Methanol Xylene</p>
California Prop 65	<p>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:</p> <p>NONE</p>
International	The components of this product are listed on the chemical inventories of the following countries:

SECTION XVI - OTHER INFORMATION

ISSUE DATE	4/2007
REVISION NUMBER	1
SUPERCEDES	N/A
PREPARED BY	Chris Jordan, 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.

*NIOSH Publication #94-116

**Sax's Dangerous Properties of Industrial Mtls. 10th Ed.

***The flash point of this product has not been determined. The solvent with the lowest flash point of the mixture was used.