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	1. Product and Company Identification
Product Code:	JP-K88
Product Name:	JP-K88
Company Name:	Hitachi America, Ltd
	50 Prospect Ave
	Tarrytown, NY
Web site address:	www.hitachi-america.us/ice/inkjetprinters/
Emergency Contact:	Chemtrec

2. Hazards Identification

Flammable Liquids, Category 2 Acute Toxicity: Oral, Category 5 Acute Toxicity: Inhalation, Category 5 Skin Corrosion/Irritation, Category 2 Serious Eye Damage/Eye Irritation, Category 2 Germ Cell Mutagenicity, Category 1B Toxic To Reproduction, Category 1B Specific Target Organ Toxicity (single exposure), Category 1 Specific Target Organ Toxicity (single exposure), Category 2 Specific Target Organ Toxicity (single exposure), Category 3 Specific Target Organ Toxicity (repeated exposure), Category 1 Specific Target Organ Toxicity (repeated exposure), Category 2 Aspiration Toxicity, Category 2

(800)424-9300



GHS Signal Word:	Danger	
GHS Hazard Phrases:	Highly flammable liquid and vapor.	
	May be harmful if swallowed.	
	May be harmful if swallowed and enters airways.	
	Causes skin irritation.	
	Causes serious eye irritation.	
	May be harmful if inhaled.	
	May cause respiratory irritation.	
	May cause genetic defects state route of exposure if it is conclusively proven t other routes of	that no
	exposure cause the hazard.	
	May damage fertility or the unborn child .	
	Causes damage to organs	
	May cause damage to organs .	
	Causes damage to organs through prolonged or repeated exposure.	
	May cause damage to organs through prolonged or repeated exposure.	
GHS Precaution Phrases:	Obtain special instructions before use.	
	Do not handle until all safety precautions have been read and understood.	
	Keep away from heat/sparks/open flames/hot surfaces No smoking.	
	Keep container tightly closed.	
	Use explosion-proof electrical/ventilating/lighting equipment.	
	Use only non-sparking tools.	
	Take precautionary measures against static discharge.	
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GHS Response Phrases:	Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	 IF exposed: Call a POISON CENTER or doctor/physician. IF exposed or concerned: Get medical attention/advice. Call a POISON CENTER or doctor/physician if exposed or you feel unwell. Call a POISON CENTER or doctor/physician if you feel unwell. Get medical attention/advice if you feel unwell. Specific treatment see section 4 on this label. Do NOT induce vomiting. If skin irritation occurs, get medical advice/attention. If eye irritation persists, get medical advice/attention. Take off contaminated clothing and wash before re-use.
GHS Storage and Disposal Phrases:	Store in cool/well-ventilated place. Store locked up. Dispose of contents/container listed in 40 CFR Parts 261.
Potential Health Effects (Acute and Chronic):	Chronic: Chronic inhalation may cause effects similar to those of acute inhalation. Prolonged or repeated skin contact may cause defatting and dermatitis. Animal studies have reported that fetal effects/abnormalities may occur when maternal toxicity is seen. Chronic overexposure to vapors may cause lung damage. Hazards not otherwise classified (HNOC) or not covered by GHS.
Inhalation:	Causes respiratory tract irritation. Inhalation of vapors may cause drowsiness and dizziness. May cause central nervous system effects such as nausea and headache. Neurobehavioural effects of exposure to MEK (200 ppm for 4 hrs) were studied with 137 volunteers. There were no statistically significant effects observed in biochemical, psychomotor, sensorimotor and psychological tests.
Skin Contact:	May be absorbed through the skin in harmful amounts. Repeated or prolonged exposure may cause drying and cracking of the skin. Only one human case of skin sensitization was located. Negative results were obtained in an animal test; MEK did not produce skin sensitization in the mouse ear thickness test.
Eye Contact:	Causes eye irritation. Vapors may cause eye irritation. Animal evidence suggests that MEK is a moderate to severe eye irritant.
Ingestion:	May cause irritation of the digestive tract. Possible aspiration hazard. May cause central nervous system depression. Animal evidence suggests that MEK can be aspirated (inhaled) into the lungs during ingestion or vomiting.

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CAS #	Hazardous Con	nponents (Chemical Name)	Concentration		
78-93-3	Methyl ethyl keto		65.0 -75.0 %		
64-17-5	Ethyl alcohol		15.0 -25.0 %		
NA	Proprietary chro	me complex	<10.0 %		
		4. First A	Aid Measures		
Emergency Procedures:	and First Aid :	Consult a physician. Show dangerous area.	this safety data sheet to the doctor in attendance. Move out c		
n Case of Ir	nhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. If breathed in, move person into fresh air. Consult a physician.			
In Case of Skin Contact:		In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse. Wash off with soap and plenty of water. Consult a physician.			
In Case of E	ye Contact:	In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.			
In Case of Ingestion: Potential for aspiration vomiting unless directer an unconscious persor			on if swallowed. Get medical aid immediately. Do not induce sted to do so by medical personnel. Never give anything by mouth to on. If vomiting occurs naturally, have victim lean forward. Do NOT se mouth with water. Consult a physician.		
Signs and S Exposure:	symptoms Of	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11			
Note to Physician: Tr		Treat symptomatically and	Treat symptomatically and supportively.		
		5. Fire Figh	nting Measures		
Flash Pt:		-4.60 C (23.7 F) Method	I Used: Closed Cup		
Explosive L	imits:	LEL:	UEL:		
Autoignition Pt:		505.00 C (941.0 F)			
Suitable Ex	tinguishing Med	be ineffective because it v	a dioxide, dry chemical powder or appropriate foam. Water may vill not cool material below its flash point. Use water spray, dry or alcohol-resistant foam.		
MSHA/NIC liquid and to a sourc low or con necessary		MSHA/NIOSH (approved liquid and vapor. Vapor m to a source of ignition and	•		
Flammable Hazards:	Properties and	Carbon oxides.			



		6. Acc	idental Release N	leasures	
Protective E Emergency Environmer Steps To Be	Precautions, Equipment and Procedures: ntal Precautions: Taken In Case Released Or	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective			
		ventilation. Co cleaner or by	ontain spillage, and then c	of ignition. Use a spark-pr ollect with an electrically pr container for disposal acc	rotected vacuum
		7.	Handling and Sto	orage	
Handling:	s To Be Taken in	Ground and be explosion product tightly closed. braze, solder, Use only with eyes. Avoid in sources of ign charge. For pr Keep away fro incompatible s well-ventilated	ond containers when trans of equipment. Avoid contact residue, (liquid and/or vap Keep away from heat, spa drill, grind, or expose emp adequate ventilation. Avoit halation of vapor or mist. It ition - No smoking. Take n ecautions see section 2. Im sources of ignition. Stor- ubstances. Flammables-a place. Containers which a rent leakage. Recommend	e contaminated clothing an ferring material. Use spark ct with eyes, skin, and cloth oor), and can be dangerous arks and flame. Do not pres ty containers to heat, spar d breathing vapor. Avoid co Jse explosion-proof equipr neasures to prevent the bu re in a cool, dry, well-ventil area. Keep container tightly are opened must be carefu ed storage temperature: -2	k-proof tools and hing. Empty containers s. Keep container ssurize, cut, weld, ks or open flames. ontact with skin and ment. Keep away from hild up of electrostatic lated area away from v closed in a dry and hilly resealed and kept
	8	B. Exposure	e Controls/Persor	al Protection	
CAS #	Partial Chemica	I Name	OSHA TWA	ACGIH TWA	Other Limits
78-93-3	Methyl ethyl keto	ne	PEL: 200 ppm	TLV: 200 ppm STEL: 300 ppm	
64-17-5	Ethyl alcohol		PEL: 1000 ppm	TLV: 1000 ppm	
NA Proprietary chrom Respiratory Equipment (Specify Type): Eye Protection:		Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Wear chemical splash goggles. Face shield and safety glasses. Use equipment for eye			
Protostiva		NIOSH (US) o	r EN 166(EU).	opropriate government star	
Protective C				event skin exposure. Hanc	-
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	must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Other Protective Clothing:	Wear appropriate protective clothing to prevent skin exposure. Impervious clothing. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Engineering Controls (Ventilation etc.):	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Ventilation fans and other electrical service must be non-sparking and have an explosion-proof design.
Work/Hygienic/Maintenance Practices:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Environmental Exposure Controls:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
	9. Physical and Chemical Properties
Physical States:	[]Gas [X]Liquid []Solid
Appearance and Odor:	Black. solvent odor.
Melting Point:	-87.00 C (-124.6 F)
Boiling Point:	80.00 C (176.0 F)
Autoignition Pt:	505.00 C (941.0 F)
Flash Pt:	-4.60 C (23.7 F) Method Used: Closed Cup
Explosive Limits:	LEL: UEL:
Specific Gravity (Water = 1):	~ 0.8294
Density:	~ 0.8050 G/ML
Vapor Pressure (vs. Air or mm Hg):	
Vapor Density (vs. Air = 1):	
Evaporation Rate:	
Solubility in Water:	
Percent Volatile:	
	10. Stability and Reactivity
Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	ignition sources, Excess heat, Heat, flames and sparks. Extremes of temperature and direct sunlight.
Incompatibility - Materials To Avoid:	Strong oxidizing agents, Strong acids, 2-propanol, Oxidizing agents, Alkali metals, Ammonia, Peroxides.
Hazardous Decomposition O Byproducts:	r Carbon monoxide, Carbon dioxide, Other decomposition products: No data available. In the event of fire: see section 5.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	



		11. Toxicological	Informatio	n		
Toxicologica	I Information:	Germ cell mutagenicity: No data				
		Reproductive toxicity. Aspiration				
Irritation or Corrosion:		Skin corrosion/irritation. No data Serious eye damage/eye irritatic				
Sensitization	:	No data available.				
Chronic Toxi Effects:	cological	Specific target organ toxicity - si Specific target organ toxicity - re	•		lable.	
Carcinogenic Information:	sity/Other	CAS# 78-93-3: Not listed by ACC this product present at levels gree possible or confirmed human ca present at levels greater than or carcinogen by NTP. OSHA: No co or equal to 0.1% is identified as	eater than or equ rcinogen by IAR equal to 0.1% is component of th	ual to 0.1% is C. NTP: No s identified a is product pr	s identified as component o s a known or esent at level	probable, f this product anticipated s greater than
CAS #	Hazardous Cor	nponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
78-93-3 Methyl ethyl ketone			n.a.	n.a.	n.a.	n.a.
64-17-5	Ethyl alcohol		n.a.	1	A4	n.a.
NA	Proprietary chro	me complex	n.a.	n.a.	n.a.	n.a.
		12. Ecological I	nformation			
Results of PBT and vPvB assessment:		PBT/vPvB assessment not avail conducted.			essment not r	equired/not
		13. Disposal Cor	sideration	S		
Waste Dispo	sal Method:	Chemical waste generators must as a hazardous waste. US EPA in 40 CFR Parts 261. Additionall hazardous waste regulations to RCRA P-Series: None listed. RCRA U-Series: CAS# 78-93-3: waste number U Burn in a chemical incinerator ec care in igniting as this material is solutions to a licensed disposal of disposal service to dispose of th combustible solvent and burn in	guidelines for th y, waste genera ensure complete 159 (Ignitable w quipped with an highly flammat company. Conta is material. Diss	e classificati tors must co and accura aste, Toxic v afterburner a ble. Offer sur act a licensec olve or mix t	on determina nsult state ar te classification vaste). Produ and scrubber plus and non- d professional he material w	tion are listed ad local on. ct. but exert extra recyclable waste ith a

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DOT Pro	ISPORT (US DOT): oper Shipping Name: zard Class:	3	FLAMMABLE LIQUID				
UN/NA N	lumber:	UN1210	Packing C	∂roup:	II		
		15. Rec	ulatory Informati	on			
-	Superfund Amendment			0.00/ 00			
CAS # 78-93-3	Hazardous Compon Methyl ethyl ketone	ents (Chemical N	ame) S. 302 (EHS) No	S. 304 RQ Yes 5000 LB	S. 313 (TRI) No		
64-17-5	Ethyl alcohol		No	No	No		
NA	Proprietary chrome c	omplex	No	No	No		
Hazard Cate	egories' defined [X] tle III Sections [X] ndicated: []	Yes [] No Ch Yes [] No Fir	dden Release of Pressure	zard			
CAS #	Hazardous Compon	ents (Chemical N	ame) Other US EPA c	or State Lists			
78-93-3 64-17-5	Methyl ethyl ketone Ethyl alcohol		TAC, Title 8; No	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; NC TAP: Yes TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8:			
NA	Proprietary chrome complex			Title 8; NC TAP: No TSCA: Yes; CA PROP.65: No; CA TAC, Title 8: No; NC TAP: No			
C AS # 78-93-3	Hazardous Compon Methyl ethyl ketone	ents (Chemical N	Canadian DSL: 1193; Australia ENCS: Yes - (2) Germany WHC	Yes; Canadian NDS	land Giftliste 1: Yes -		
	Ethyl alcohol		Canadian DSL:	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; Japan ENCS: Yes - (2)-202; Japan ISHL: No; Israel HSL: Yes - Cat.; Germany WHCS: Yes - 96; Switzerland Giftliste 1: Yes - G-1158; Switzerland INNS: No; REACH: Yes - (R), (P)			



SAFETY DATA SHEET **JP-K88**

Revision: 02/17/2015

NA Proprietary chror	ne complex	Canadian DSL: No; Canadian NDSL: No; Mexico INSQ: No; Australia ICS: No; New Zealand IOC: No; Japan ENCS: No; Japan ISHL: No; Israel HSL: No; Germany WHCS: No; Switzerland Giftliste 1: No; Switzerland INNS: No; REACH: Yes - (P)
	16. Othe	er Information
Revision Date:	02/17/2015	
Hazard Rating System: HMIS:	HEALTH2FLAMMABILITY3PHYSICAL0PPEE	Flammability Health NFPA: Special Hazard
Additional Information Abou This Product:	neither the above named whatsoever for the accur determination of suitabili materials may present u	edge, the information contained here in is accurate. However, d supplier nor any of its subsidiaries assumes any liability racy or completeness of the information contained herein. Final ty of any material is the sole responsibility of the user. All nknown hazards and should be used with caution. Although bribed herein, we cannot guarantee that these are the only ion: