

Page: 1

	1. Product and Company Identification
Product Code:	JP-K72u
Product Name:	JP-K72u
Trade Name:	JP-K72u
Company Name:	Hitachi America, Ltd
	50 Prospect Ave
	Tarrytown, NY
Web site address:	www.hitachi-america.us/ice/inkjetprinters/
Emergency Contact:	Chemtrec
	(800)424-9300
	2. Hazards Identification

Flammable Liquids, Category 2 Serious Eye Damage/Eye Irritation, Category 2 Acute Toxicity: Oral, Category 5 Acute Toxicity: Inhalation, Category 5 Skin Corrosion/Irritation, Category 2 Target Organ Systemic Toxicity (single exposure), Category 1 Target Organ Systemic Toxicity (single exposure), Category 2 Target Organ Systemic Toxicity (single exposure), Category 3 Target Organ Systemic Toxicity (repeated exposure), Category 1 Aspiration Toxicity, Category 2



GHS Signal Word:	Danger
GHS Hazard Phrases:	H225: Highly flammable liquid and vapor.
	H319: Causes serious eye irritation.
	H303: May be harmful if swallowed.
	H333: May be harmful if inhaled.
	H315: Causes skin irritation.
	H370: Causes damage to organs.
	H371: May cause damage to organs.
	H335: May cause respiratory irritation.
	H372: Causes damage to organs through prolonged or repeated exposure.
	H305: May be harmful if swallowed and enters airways.
GHS Precaution Phrases:	P233: Keep container tightly closed.
	P210: Keep away from {heat/sparks/open flames/hot surfaces} No smoking.
	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.
	P240: Ground/bond container and receiving equipment.
	P241: Use explosion-proof electrical/ventilating/lighting equipment.
	P243: Take precautionary measures against static discharge.
	P242: Use only non-sparking tools.
	P264: Wash {hands} thoroughly after handling.
	P260: Do not breathe {dust/fume/gas/mist/vapours/spray}.
	P270: Do not eat, drink or smoke when using this product.
	P261: Avoid breathing {dust/fume/gas/mist/vapours/spray}.
	P271: Use only outdoors or in a well-ventilated area.
GHS Response Phrases:	P370+378: In case of fire, use dry chemical, CO2, water splay, fog or form to extinguish
-	P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated



Revision: 10/02/2015 Supersedes Revision: 08/18/2014

	Supersedes Revision: 08/18/2014
	clothing. Rinse skin with water/shower.
	P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
	P337+313: If eye irritation persists, get medical advice/attention.
	P312: Call a {POISON CENTER/doctor} if you feel unwell.
	P302+352: IF ON SKIN: Wash with plenty of soap and water.
	P321: Specific treatment {see Section 4 on this SDS}.
	P332+313: If skin irritation occurs, get medical advice/attention.
	P362: Take off contaminated clothing.
	P307+311: IF exposed: Call a POISON CENTER or doctor/physician.
	P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.
	P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position
	comfortable for breathing.
	P314: Get medical attention/advice if you feel unwell.
	P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
	P331: Do NOT induce vomiting.
	C C C C C C C C C C C C C C C C C C C
GHS Storage and Disposal	P403+235: Store in cool/well-ventilated place.
Phrases:	P501: Dispose of contents/container listed in 40 CFR Parts 261.
	P405: Store locked up.
	P403+233: Store container tightly closed in well-ventilated place - if product is as volatile
	as to generate hazardous atmosphere.
Hazard Rating System:	HEALTH 2 Flammability Instability
	FLAMMABILITY 3
	PHYSICAL 0 Health
HMIS:	PPE B NFPA: Special Hazard
Potential Health Effects	Chronic: Chronic inhalation may cause effects similar to those of acute inhalation.
(Acute and Chronic):	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.
Inhalation:	Courses respiratory tract insitation. Inholation of yonors may cause drawsiness and
innalation:	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
Skin Contact:	
	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.

Licensed to Hitachi Ink Research and Development: MIRS MSDS, (c) A V Systems, Inc.



GHS format

Revision: 10/02/2015 Supersedes Revision: 08/18/2014

	3	. Composition/Info	ormation on Ingredients		
CAS #	Hazardous Com	ponents (Chemical Name)	Concentration		
78-93-3 Methyl ethyl keto NA Proprietary chron		ne	80.0 -90.0 %		
		ne complex	1.0 -10.0 %		
		4. First A	Aid Measures		
Emergency a Procedures:	and First Aid	No data available.			
In Case of Inhalation: If inhaled, remove to difficult, give oxyger			air. If not breathing, give artificial respiration. If breathing is medical aid.		
			kin with plenty of water. Remove contaminated clothing and rritation develops and persists. Wash clothing before reuse.		
In Case of Eye Contact: In case of contact, immediately flush eyes with pler Get medical aid.			iately flush eyes with plenty of water for a t least 15 minutes.		
vomiting unless direct			wallowed. Get medical aid immediately. Do not induce o do so by medical personnel. Never give anything by mouth to vomiting occurs naturally, have victim lean forward.		
Note to Phys	sician:	Treat symptomatically and	d supportively.		
		5. Fire Figh	nting Measures		
Flash Pt:		-7.60 C (18.3 F) Method	Used: Closed Cup		
Explosive Li	imits:	LEL: No data.	UEL: No data.		
Autoignitior	n Pt:	505.00 C (941.0 F)			
Suitable Ext	inguishing Medi		n dioxide, dry chemical powder or appropriate foam. Water may will not cool material below its flash point.		
Fire Fighting	g Instructions:	MSHA/NIOSH (approved liquid and vapor. Vapor m	-contained breathing apparatus in pressure-demand, or equivalent), and full protective gear. Extremely flammable hay cause flash fire. Vapors are heavier than air and may trave I flash back. Vapors can spread along the ground and collect in		
Flammable Hazards:	Properties and	No data available.			

Licensed to Hitachi Ink Research and Development: MIRS MSDS, (c) A V Systems, Inc.



Revision: 10/02/2015 Supersedes Revision: 08/18/2014

				Superse	des Revision: 08/18/2014		
		6. Acc	idental Release M	leasures			
Steps To Be Taken In CaseUse proper persoMaterial Is Released OrSpills/Leaks: AbsSpilled:in suitable contair			Absorb spill with inert mat ntainer. Clean up spills im	onal protective equipment as indicated in Section 8. sorb spill with inert material (e.g. vermiculite, sand or earth), then place ner. Clean up spills immediately, observing precautions in the Protective on. Remove all sources of ignition. Use a spark-proof tool. Provide			
		7.	Handling and St	orage			
Precautions Handling:	To Be Taken in				k-proof tools and hing. Empty container s. Keep container ssurize, cut, weld,		
Precautions Storing:	To Be Taken in	incompatible s	om sources of ignition. Sto substances. Flammables-a e Controls/Perso		lated area away from		
	U U	. Exposure					
CAS #	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits		
78-93-3	Methyl ethyl ketor	ne	PEL: 200 ppm	TLV: 200 ppm STEL: 300 ppm	No data.		
NA	Proprietary chrom	ne complex	No data.	No data.	No data.		
Respiratory (Specify Typ		Standard EN 1	149. Use a NIOSH/MSHA	found in 29 CFR 1910.134 or European Standard EN ed or if irritation or other sy	149 approved		
Eye Protecti	on:	Wear chemica	l splash goggles.				
Protective G	Protective Gloves: Wear appropriate		ate protective gloves to p	e protective gloves to prevent skin exposure.			
Other Protective Clothing: Wear appropriat		ate protective clothing to	e protective clothing to prevent skin exposure.				
Engineering (Ventilation		a safety showe concentrations	er. Use adequate general s below the permissible ex	I should be equipped with a or local exhaust ventilation posure limits. Ventilation f and have an explosion-pro	n to keep airborne ans and other		



	9. Physical and Che	mical Prop			
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)				
lash Pt:	-7.60 C (18.3 F) Method Used	•	- 4 -		
Explosive Limits:	LEL: No data.	UEL: No d	ata.		
Specific Gravity (Water = 1):					
Density:	0.8050 G/ML				
/apor Pressure (vs. Air or nm Hg):	No data.				
/apor Density (vs. Air = 1):	No data.				
Evaporation Rate:	No data.				
Solubility in Water:	No data.				
Percent Volatile:	No data.				
	10. Stability and	d Reactivity	1		
Stability:	Unstable [] Stable [X]				
Conditions To Avoid - nstability:	ignition sources, Excess heat, c	onfined spaces.			
lazardous Decomposition C	D Avoid: Strong oxidizing agents, Dr Carbon monoxide, Carbon dioxi	-			
Hazardous Decomposition C Byproducts: Possibility of Hazardous Reactions: Conditions To Avoid -		ide, Peroxides.			
Hazardous Decomposition C Byproducts: Possibility of Hazardous Reactions:	9r Carbon monoxide, Carbon dioxi Will occur [] Will not occur No data available.	ide, Peroxides. r [X]	n		
Hazardous Decomposition C Byproducts: Possibility of Hazardous Reactions: Conditions To Avoid - Hazardous Reactions:	Or Carbon monoxide, Carbon dioxi Will occur [] Will not occur No data available. 11. Toxicological	ide, Peroxides. r [X]	on		
Hazardous Decomposition C Byproducts: Possibility of Hazardous Reactions: Conditions To Avoid -	9r Carbon monoxide, Carbon dioxi Will occur [] Will not occur No data available.	ide, Peroxides. r [X] Informatio		9 65.	
Hazardous Decomposition C Byproducts: Possibility of Hazardous Reactions: Conditions To Avoid - Hazardous Reactions: Foxicological Information: Carcinogenicity/Other nformation:	Or Carbon monoxide, Carbon dioxi Will occur [] Will not occur No data available. 11. Toxicological No data available.	ide, Peroxides. r [X] Informatio		9 65. ACGIH	OSHA
Hazardous Decomposition C Byproducts: Possibility of Hazardous Reactions: Conditions To Avoid - Hazardous Reactions: Foxicological Information: Carcinogenicity/Other nformation:	Or Carbon monoxide, Carbon dioxi Will occur [] Will not occur No data available. 11. Toxicological No data available. CAS# 78-93-3: Not listed by AC	ide, Peroxides. r [X] Informatio	e, or CA Prop		OSHA n.a.
Hazardous Decomposition C Byproducts: Possibility of Hazardous Reactions: Conditions To Avoid - Hazardous Reactions: Foxicological Information: Carcinogenicity/Other Information: CAS # Hazardous Con	Or Carbon monoxide, Carbon dioxi Will occur [] Will not occur No data available. 11. Toxicological No data available. CAS# 78-93-3: Not listed by AC mponents (Chemical Name)	ide, Peroxides. r [X] GIH, IARC, NTP	P, or CA Prop IARC	ACGIH	
Hazardous Decomposition C Byproducts: Possibility of Hazardous Reactions: Conditions To Avoid - Hazardous Reactions: Foxicological Information: Carcinogenicity/Other Information: CAS # Hazardous Con 78-93-3 Methyl ethyl keto	Or Carbon monoxide, Carbon dioxi Will occur [] Will not occur No data available. 11. Toxicological No data available. CAS# 78-93-3: Not listed by AC nponents (Chemical Name) one me complex	ide, Peroxides. r [X] GIH, IARC, NTP NTP n.a. n.a. n.a.	P, or CA Prop IARC n.a. n.a.	ACGIH n.a.	n.a.
Hazardous Decomposition C Byproducts: Possibility of Hazardous Reactions: Conditions To Avoid - Hazardous Reactions: Toxicological Information: Carcinogenicity/Other Information: CAS # Hazardous Con 78-93-3 Methyl ethyl keto	Or Carbon monoxide, Carbon dioxi Will occur [] Will not occur No data available. 11. Toxicological No data available. CAS# 78-93-3: Not listed by AC mponents (Chemical Name)	ide, Peroxides. r [X] GIH, IARC, NTP NTP n.a. n.a. n.a.	P, or CA Prop IARC n.a. n.a.	ACGIH n.a. n.a.	n.a. n.a.

Page: 5



Revision: 10/02/2015 Supersedes Revision: 08/18/2014

Page: 6

				Supers	sedes Revision: 08/18/2014
		13. Disposal (Consideratio	ns	
Waste Disposa	al Method:	Chemical waste generators as a hazardous waste. US B in 40 CFR Parts 261. Addition hazardous waste regulation RCRA P-Series: None listed RCRA U-Series: CAS# 78-93-3: waste numb	EPA guidelines for onally, waste gene s to ensure comple d.	the classification c rators must consu ete and accurate c	letermination are listed It state and local lassification.
		14. Transpo	rt Informatio	n	
DOT Prope DOT Hazar UN/NA Nur	rd Class:	me: Printing ink 3 FLAMM UN1210	IABLE LIQUID Packing G	roup	II
		FLAMMABLE LIQUID		ioup.	·
		15. Regulato	·	on	
	-	nents and Reauthorization Act	of 1986) Lists		S 313 (TRI)
CAS #	-	nents and Reauthorization Act ponents (Chemical Name)	·	S. 304 RQ Yes 5000 LB	S. 313 (TRI) No
CAS # 78-93-3	Hazardous Com	nents and Reauthorization Act ponents (Chemical Name) ne	of 1986) Lists S. 302 (EHS)	S. 304 RQ	
CAS # 78-93-3 NA This material n Hazard Catego or SARA Title	Hazardous Com Methyl ethyl ketor Proprietary chron meets the EPA ories' defined III Sections	nents and Reauthorization Act ponents (Chemical Name) ne	of 1986) Lists S. 302 (EHS) No No eediate) Health Haz elayed) Health Haz	S. 304 RQ Yes 5000 LB No zard card	No
CAS # 78-93-3 NA This material n Hazard Catego for SARA Title 311/312 as ind CAS #	Hazardous Com Methyl ethyl ketor Proprietary chron meets the EPA ories' defined III Sections licated:	nents and Reauthorization Act ponents (Chemical Name) ne ne complex [X] Yes [] No Acute (imm [X] Yes [] No Chronic (de [X] Yes [] No Fire Hazard [] Yes [X] No Sudden Re [] Yes [X] No Reactive H ponents (Chemical Name)	of 1986) Lists S. 302 (EHS) No No Hediate) Health Haz elayed) Health Haz d lease of Pressure azard Other US EPA of TSCA: Yes - Inve	S. 304 RQ Yes 5000 LB No zard :ard Hazard r State Lists entory; CA PROP.65	No
CAS # 78-93-3 NA This material m Hazard Catego for SARA Title 311/312 as ind CAS # 78-93-3	Hazardous Com Methyl ethyl ketor Proprietary chron meets the EPA ories' defined III Sections licated: Hazardous Com	nents and Reauthorization Act ponents (Chemical Name) ne ne complex [X] Yes [] No Acute (imm [X] Yes [] No Chronic (de [X] Yes [] No Fire Hazard [] Yes [X] No Sudden Re [] Yes [X] No Reactive H ponents (Chemical Name) ne	of 1986) Lists S. 302 (EHS) No No Hediate) Health Haz elayed) Health Haz d lease of Pressure azard Other US EPA of TSCA: Yes - Inve TAC, Title 8; NC	S. 304 RQ Yes 5000 LB No zard ard Hazard Hazard r State Lists entory; CA PROP.65 TAP: Yes entory; CA PROP.65	No No
CAS # 78-93-3 NA This material m Hazard Catego for SARA Title 311/312 as ind CAS # 78-93-3 NA CAS #	Hazardous Com Methyl ethyl ketor Proprietary chron meets the EPA ories' defined III Sections licated: Hazardous Com Methyl ethyl ketor Proprietary chron Hazardous Com	nents and Reauthorization Act ponents (Chemical Name) ne ne complex [X] Yes [] No Acute (imm [X] Yes [] No Chronic (de [X] Yes [] No Fire Hazard [] Yes [X] No Sudden Re [] Yes [X] No Reactive H ponents (Chemical Name) ne ne complex ponents (Chemical Name)	of 1986) Lists S. 302 (EHS) No No Hediate) Health Haz elayed) Health Haz delayed) Health Haz delase of Pressure azard Other US EPA of TSCA: Yes - Inve TAC, Title 8; NC TSCA: Yes - Inve No; NC TAP: No International Res	S. 304 RQ Yes 5000 LB No zard ard Hazard Hazard r State Lists entory; CA PROP.65 TAP: Yes entory; CA PROP.65 O	No No S: No; CA TAC, Title 8: S: No; CA TAC, Title 8:
CAS # 78-93-3 NA This material m Hazard Catego for SARA Title 311/312 as ind CAS # 78-93-3 NA CAS #	Hazardous Com Methyl ethyl ketor Proprietary chron meets the EPA ories' defined III Sections licated: Hazardous Com Methyl ethyl ketor Proprietary chron	nents and Reauthorization Act ponents (Chemical Name) ne ne complex [X] Yes [] No Acute (imm [X] Yes [] No Chronic (de [X] Yes [] No Fire Hazard [] Yes [X] No Sudden Re [] Yes [X] No Reactive H ponents (Chemical Name) ne ne complex ponents (Chemical Name)	of 1986) Lists S. 302 (EHS) No No No Hediate) Health Haz elayed) Health Haz d lease of Pressure azard Other US EPA of TSCA: Yes - Inve TAC, Title 8; NC TSCA: Yes - Inve No; NC TAP: No International Reg Canadian DSL: Y 1193; Australia I	S. 304 RQ Yes 5000 LB No zard ard Hazard Hazard r State Lists entory; CA PROP.65 TAP: Yes entory; CA PROP.65 gulatory Lists Yes; Canadian NDSI	No No S: No; CA TAC, Title 8: S: No; CA TAC, Title 8: L: No; Mexico INSQ: Yes and IOC: Yes; Japan

HIT/	4C	HI
Inspire	the	Next

NA

SAFETY DATA SHEET JP-K72

Revision: 10/02/2015 Supersedes Revision: 08/18/2014

Germany WHCS: Yes - 150; Switzerland Giftliste 1: Yes -G-2429; Switzerland INNS: No; REACH: Yes - (R), (P) 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. Other Information

Revision Date: 08/18/2014

Proprietary chrome complex

Additional Information About To the best of our knowledge, the information contained here in is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Hitachi Contact Information: Garan Myers Phone (866)-583-0048