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	1. Product and Company Ider	ntification
Product Name: Company Name:	JP-K304A, 1304K Hitachi Industrial Equipment & Solutions America, LLC 2730 Greenleaf Avenue Elk Grove Village, IL 60007	Phone Number: (866)583-0048
Web site address:	https://www.hitachi-iesa.com/industrial-mark oding	king-and-c
Emergency Contact:	Chemtrec	(800)424-9300
Information: Intended Use:	Christian Krzykwa Printing ink	(980)500-7144

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 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 **Aspiration Toxicity, Category 2**



GHS Signal Word:	Danger
GHS Hazard Phrases:	H225 - Highly flammable liquid and vapor.
	H303 - May be harmful if swallowed.
	H315 - Causes skin irritation.
	H319 - Causes serious eye irritation.
	H333 - May be harmful if inhaled.
	H370 - Causes damage to organs kidneys
	H370 - Causes damage to organs
	Causes respiratory irritation.
	H372 - Causes damage to organs central and peripheral nervous systems through
	prolonged or repeated exposure.
GHS Precautionary Phrases:	P201 - Obtain special instructions before use.
	P202 - Do not handle until all safety precautions have been read and understood.
	P210 - Keep away from heat/sparks/open flames/hot surfaces No smoking.
	P233 - Keep container tightly closed.
	P240 - Ground/bond container and receiving equipment.
	P241 - Use explosion-proof electrical/ventilating/lighting// equipment.
	P242 - Use only non-sparking tools.
	P243 - Take precautionary measures against static discharge.
	P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
	P264 - Wash hands thoroughly after handling.
	P270 - Do not eat, drink or smoke when using this product.
	P271 - Use only outdoors or in a well-ventilated area.



	P280 - Wear protective gloves/protective clothing/eye protection/face protection. P235 - Keep cool.
GHS Response Phrases:	 P370+378 - In case of fire, use dry chemical, CO2, water spray or foam to extinguish. P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P302+352 - IF ON SKIN: Wash with plenty of soap and water. P360 - Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. P353 - Rinse skin with water [or shower]. P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+311 - If exposed of concerned: Call a POISON CENTER/Doctor/ P314 - Get medical attention/advice if you feel unwell. P331 - Do NOT induce vomiting. P332+313 - If skin irritation occurs, get medical advice/attention. P337+313 - If eye irritation persists, get medical advice/attention. P362+364 - Take off contaminated clothing and wash it before reuse.
GHS Storage and Disposal Phrases:	 P403+233 - Store container tightly closed in a cool and well-ventilated place. P405 - Store locked up. P501 - Dispose of contents/container in accordance with local regulations.
Emergency Overview: Potential Health Effects	Hazards not otherwise classified (HNOC) or not covered by GHS.

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(Acute	and	Chro	nic):

	2	Composition/Information on Ingradio
):		

	3.	Composition/Info	rmation on Ingredients
CAS #	Hazardous Comp	oonents (Chemical Name)	Concentration
78-93-3	Methyl ethyl keton	e	60.0 -80.0 %
NA	Proprietary chrom	e complex	1.0 -10.0 %
		4. First A	id Measures
Emergency Procedures	and First Aid :	Consult a physician. Show dangerous area.	this safety data sheet to the doctor in attendance. Move out of
In Case of Ir	nhalation:	If breathed in, move perso Consult a physician.	n into fresh air. If not breathing, give artificial respiration.
In Case of S	kin Contact:	Wash off with soap and ple	enty of water. Consult a physician.
In Case of E	ye Contact:	Rinse thoroughly with plen	ty of water for at least 15 minutes and consult a physician.
In Case of Ir	ngestion:	Do NOT induce vomiting. N Rinse mouth with water. C	Never give anything by mouth to an unconscious person. onsult a physician.
Signs and S Exposure:	symptoms Of	The most important known section 2.2) and/or in secti	symptoms and effects are described in the labelling (see on 11
	f any immediate ention and specia eeded:	No data available. I	



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JP-K304A, 1304K	
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	5. Fire Fighting Measures
Flash Pt:	-2.99 C (26.6 F) Method Used: Closed Cup
Explosive Limits:	LEL: 1.8 %(V) UEL: 10.1 %(V
Autoignition Pt:	No data.
Suitable Extinguishing Media	a: Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.
Fire Fighting Instructions:	Wear self contained breathing apparatus for fire fighting if necessary. Further information.
Flammable Properties and Hazards:	Carbon oxides, Flash back possible over considerable distance. Container explosion may occur under fire conditions.
Hazardous Combustion Products:	No data available.
	6. Accidental Release Measures
Protective Precautions, Protective Equipment and Emergency Procedures:	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.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Steps To Be Taken In Case Material Is Released Or Spilled:	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).
	7. Handling and Storage
Precautions To Be Taken in Handling:	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.
Precautions To Be Taken in Storing:	Keep container tightly closed in a cool, dry, and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Hygroscopic. Storage class 510)
Other Precautions:	Apart from the uses mentioned in section 1 no other specific uses are stipulated.
8	8. Exposure Controls/Personal Protection
CAS # Partial Chemical	

PEL: 200 ppm

No data.

Methyl ethyl ketone NA

78-93-3

Proprietary chrome complex

TLV: 200 ppm STEL: 300 ppm No data.

No data.

No data.



Personal Protective Equipment Symbols:	🗢 🂾
Respiratory Equipment (Specify Type):	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).
Eye Protection:	Face shield and safety glasses.
Protective Gloves:	 Handle with gloves. Gloves 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. Splash contact: Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 292 min. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
Other Protective Clothing:	Impervious clothing. Flame retardant antistatic protective clothing.
Engineering Controls (Ventilation etc.):	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.

	solvent odor.
pH:	Not available
Melting Point:	-86.99 C (-124.6 F)
Boiling Point:	80.00 C (176.0 F)
Flash Pt:	-2.99 C (26.6 F) Method Used: Closed Cup
Evaporation Rate:	Not available
Flammability (solid, gas):	No data available.
Explosive Limits:	LEL: 1.8 %(V) UEL: 10.1 %(V
Vapor Pressure (vs. Air or	95 hPa at 20.0 C (68.0 F)
mm Hg):	
	No data.
Vapor Density (vs. Air = 1):	2.49 - (Air=1.0)
Specific Gravity (Water =	.805
1):	
Solubility in Water:	soluble
Saturated Vapor	No data.
Concentration:	
Octanol/Water Partition	0.29
Coefficient:	



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Autoignition Pt:	No data.
Decomposition Temperature:	No data.
Viscosity:	Not available
Explosive Properties:	No data available.
Oxidizing Properties:	No data available.
Information with regard to primary physical hazard:	
	10. Stability and Reactivity
Reactivity:	No data available.
Stability:	Unstable [] Stable [X]
Conditions To Avoid -	Exposure to moisture. Heat

Stability: Unstable [] Stable [X] Conditions To Avoid - Exposure to moisture. Heat. Instability: Unstable [X]
Instability:
La serve still litte Mataziala Ta Osidiais e serveta Otare e serveta
Incompatibility - Materials To Oxidizing agents, Strong reducing agents. Avoid:
Hazardous Decomposition or No data available. In the event of fire: see section 5. Byproducts:
Possibility of Hazardous Will occur [] Will not occur [X] Reactions:
Conditions To Avoid - Vapors may form explosive mixture with air. Hazardous Reactions: Vapors may form explosive mixture with air.

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		logica		ormation

Toxicological Information:	Acute toxicity.
	Germ cell mutagenicity: No data available.
	Reproductive toxicity. Aspiration hazard:
	CAS# 78-93-3:
	1. Acute toxicity, TCLo, Inhalation, Human, 100.0 PPM, 5 M.
	Result:
	Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Olfaction:Other changes.
	Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Conjunctive irritation.
	Lungs, Thorax, or Respiration:Other changes.
	- Journal of Industrial Hygiene and Toxicology, Vol/p/yr: 25,282, 1943
	2. Acute toxicity, LD50, Oral, Mouse, 4050. MG/KG.
	Result:
	Behavioral: Sleep.
	Behavioral: Headache.
	Gastrointestinal:Nausea or vomiting.
	- Toxicology Letters., Elsevier Science Pub. B.V., POB 211, 1000 AE, Amsterdam 1000
	AE Netherlands, Vol/p/yr: 30,13, 1986
	3. Acute toxicity, LC50, Inhalation, Mouse, 32.00 GM/M3, 4 H.
	Result:
	Gastrointestinal: Alteration in gastric secretion.
	Gastrointestinal:Other changes.



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- Current Toxicology, Nova Science Publishers, Inc., 6080 Jericho Turnpike, Suite 207, Commack, NY 11725, Vol/p/yr: 1,47, 1993

	4. Acute toxicity, LD50, Intraperitoneal, Mouse, 616.0 MG/KG.
	Result:
	Behavioral: Change in motor activity (specific assay).
	Behavioral: Ataxia.
	Behavioral: Antipsychotic.
	- Shell Chemical Company. Unpublished Report., Vol/p/yr: -,6, 1961
	- Shell Chemical Company. Onpublished Report., Vol/p/yr,0, 1901
	5. Acute toxicity, LD50, Skin, Species: Rabbit, 6480. MG/KG.
	Result:
	Behavioral: Hallucinations, distorted perceptions.
	Endocrine:Effect on menstrual cycle.
	- Shell Chemical Company., Vol/p/yr: MSDS-5390-,
	6. Acute toxicity, TCLo, Inhalation, Human, 10.00 ppm.
	Result:
	Cardiac: Pulse rate decreased with fall in BP.
	Lungs, Thorax, or Respiration:Other changes.
	 Neurotoxicology., Intox Press, Inc., POB 34075, Little Rock, AR 72203, Vol/p/yr:
	24,179, 2003
	7. Acute toxicity, LC50, Inhalation, Mouse, 32.00 mg/m3.
	Result:
	Liver: Fatty liver degeneration.
	8. Standard Draize Test, Eyes, Human, 350.0 PPM.
	Result:
	Tumorigenic: Equivocal tumorigenic agent by RTECS criteria.
	Gastrointestinal:Tumors.
	Liver: Tumors.
	- Journal of Industrial Hygiene and Toxicology, Vol/p/yr: 25,282, 1943
	9. Standard Draize Test, Skin, Species: Rabbit, 500.0 MG, 24 H.
	Result:
	Behavioral: Ataxia.
	Lungs, Thorax, or Respiration:Dyspnea.
	Gastrointestinal:Hypermotility, diarrhea.
	- Journal of Industrial Hygiene and Toxicology, Vol/p/yr: 25,282, 1943
Irritation or Corrosion:	Skin corrosion/irritation.
	Result: Tumorigenic:Tumors at site or application. No skin irritation . (OECD Test
	Guideline 404) Serious eye damage/eye irritation Eyes -Rabbit
	Irritating to eyes .
Sensitization:	No data available.
	Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.
Chronic Toxicological	
Effects:	Specific target organ toxicity -repeated exposure: no data available.
Carcinogenicity/Other	IARC: No component of this product present at levels greater than or equal to 0.1% is
Information:	identified as probable, possible or confirmed human carcinogen by IARC.
	ACGIH: No component of this product present at levels greater than or equal to 0.1% is
	identified as a carcinogen or potential carcinogen by ACGIH.
	NTP: No component of this product present at levels greater than or equal to 0.1% is



identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
78-93-3	Methyl ethyl ketone	n.a.	n.a.	n.a.	n.a.
NA	Proprietary chrome complex	n.a.	n.a.	n.a.	n.a.

12. Ecological Information					
	No data available.				
Results of PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.				
Persistence and Degradability:	No data available.				
Bioaccumulative Potential:	No data available.				
Mobility in Soil:	No data available.				
Other adverse effects:	No data available.				
13. Disposal Considerations					
Waste Disposal Method:	Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra				

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging:

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name:	Printing ink.			
DOT Hazard Class:	3	FLAMMABLE	E LIQUID	
UN/NA Number:	UN1210		Packing Group:	Ш
	3			
LAND TRANSPORT (Canadian T	DG):			
TDG Shipping Name:	Printing ink.			
UN Number:	UN1210		Packing Group:	П
Hazard Class:	3 - FLAMMABL	E LIQUID	TDG Classification:	
LAND TRANSPORT (European A	ADR/RID):			
ADR/RID Shipping Name:	Printing ink.			
UN Number:	UN1210		Packing Group:	П
Hazard Class:	3 - FLAMMABI	LE LIQUID		
MARINE TRANSPORT (IMDG/IM	O):			
IMDG/IMO Shipping Name:	Printing ink.			
UN Number:	UN1210		Packing Group:	II
Hazard Class:	3 - FLAMMAB	LE LIQUID		
			IMDG MFAG Number:	



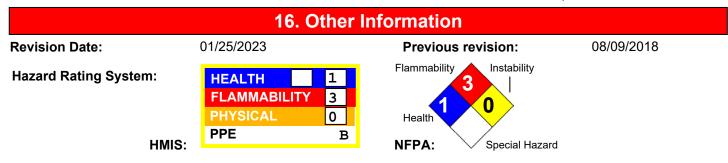
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AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: UN Number: Hazard Class:		Printing ink. UN1210 3 - FLAMMABLE LIQI	Packing G JID	roup:	II		
15. Regulatory Information							
EPA SARA (Superfund A	Amendmen	ts and Reauthorization A	ct of 1986) Lists			
CAS #	Hazardo	us Compoi	nents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
78-93-3	Methyl e	thyl ketone		No	Yes NA	No	
NA	Proprieta	ary chrome o	omplex	No	No	No	
This materia	al meets th	ne EPA 'Ha	zard Categories' defin	ed for SARA Title I	II Sections 311/31	2 as indicated:	
[] Yes [X] No			•		e toxicity (any route of e		
[X] Yes [] No	Flammable (gases, aeros	ols, liquid, or solid)	[X] Yes [] No Skin	Corrosion or Irritation		
[] Yes [X] No	Oxidizer (liq	uid, solid or g	as)	[X] Yes [] No Serie	ous eye damage or eye	irritation	
[] Yes [X] No	Self-reactive			[]Yes [X]No Res	piratory or Skin Sensitiza	ation	
[] Yes [X] No	Pyrophoric (liquid or solid)	[] Yes [X] No Gerr	n cell mutagenicity		
[] Yes [X] No	Pyrophoric g	jas		[]Yes [X]No Card	inogenicity		
[] Yes [X] No	Self-heating			[]Yes [X]No Rep	roductive toxicity		
[] Yes [X] No	Organic per	oxide		[X] Yes [] No Specific target organ toxicity (single or repeated exposure)			
[] Yes [X] No	Corrosive to	metal		[X] Yes [] No Aspi	ration Hazard		
[] Yes [X] No	Gas under p	ressure (com	pressed gas)	[]Yes [X] No Sim	ole Asphyxiant		
[] Yes [X] No	In contact w	ith water emit	s flammable gas	[]Yes [X]No (Hea	alth) Hazard Not Otherw	ise Classified (HNOC)	
[] Yes [X] No	Combustible	Dust					
[] Yes [X] No	(Physical) H	azard Not Oth	nerwise Classified (HNOC)				
CAS #	Hazardo	us Compoi	nents (Chemical Name)	Canadian NPRI	Canadian Toxic	Canadian DSL	
78-93-3	Methyl e	thyl ketone		Yes: Part 5	No	Yes	
NA	Proprieta	ary chrome o	complex	No	No	No	
California I	Propositio	on 65					
	RNING	Californi	duct can expose you to a to cause birth defects 5Warnings.ca.gov.	-			
CAS #	Hazardo	us Compoi	nents (Chemical Name)	Other US EPA o	r State Lists		
78-93-3	78-93-3 Methyl ethyl ketone		TSCA: Inventory CA TAC, Title 8: TAC: Cat. IIa, Title 8				
				NC TAP: Yes: N	CTAP		
NA	•	ary chrome o	•				
CAS #	Hazardo	us Compoi	nents (Chemical Name)	al Name) International Regulatory Lists			
78-93-3	Methyl e	thyl ketone		Mexico INSQ: 11	93		
				Japan ENCS: 2-	542		
				Germany WHCS	: 150: WGK 1		
				Switzerland Giftli	ste 1: G-2429		
					9457290-43: Full, (P)		
NA Proprietary chrome complex		complex	REACH: (P)				



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Additional Information About To the best of our knowledge, the information contained herein 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 presented in this document. Final determination of suitability of any material is the sole responsibility of the user to follow local, state and federal laws and regulations in regards to handling of hazardous materials. Although certain hazards are described herein, unknown hazards may exist and caution should always be exercised.

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Company Policy or Disclaimer: