

This SDS complies with the Canadian Hazardous Products Regulations of 2015.

	1. Product and Company Identification		
Product Name: Company Name:	JP-K414ci, 1414Kci 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-marking-and-c oding		
Emergency Contact:	Chemtrec	(800)424-9300	
Information: Intended Use:	Christian Krzykwa Printing Ink Related Material	(980)500-7144	

2. Hazards Identification

Flammable Liquids, Category 2 Skin Corrosion/Irritation, Category 3 Serious Eye Damage/Eye Irritation, Category 1 Skin Sensitization, Category 1 Toxic To Reproduction, Category 2 Specific Target Organ Toxicity (single exposure), Category 3



GHS Signal Word:	Danger
GHS Hazard Phrases:	H225 - Highly flammable liquid and vapor.
	H319 - Causes serious eye irritation.
	H302 - Harmful if swallowed.
	H332 - Harmful if inhaled.
	H316 - Causes mild skin irritation.
	H370 - Causes damage to organs
	Causes respiratory irritation.
	H372 - Causes damage to organs 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.
	P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
	P271 - Use only outdoors or in a well-ventilated area.
	P272 - Contaminated work clothing should not be allowed out of the workplace.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P264 - Wash hands thoroughly after handling.
	P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
GHS Response Phrases:	P370+378 - In case of fire, use dry chemical, CO2, water spray, or foam to extinguish.
	P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.



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	P363 - Wash contaminated clothing before reuse.
	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+313 - IF exposed or concerned: Get medical attention/advice.
	P332+313 - If skin irritation occurs, get medical advice/attention.
	P337+313 - If eye irritation persists, get medical advice/attention.
GHS Storage and Disposal	P403+233 - Store container tightly closed in a cool and well-ventilated place.
Phrases:	P403+235 - Store in cool & well-ventilated place. P405 - Store locked up.
	P501 - Dispose of contents/container

Emergency Overview:

3. Composition/Information on Ingredients				
CAS #	Hazardous Components (Chemical Name)	Concentration		
25085-75-0	Formaldehyde, polymer with 4,4'-(1-methylethylidene)bis[phenol]	5.0 -20.0 %		
80-05-7	4,4'-Isopropylidenediphenol	1.0 -5.0 %		
64-17-5	Ethyl alcohol	10.0 -20.0 %		
78-93-3	Methyl ethyl ketone	30.0 -60.0 %		
NA	Proprietary chrome complex	1.0 -10.0 %		

4. First Aid Measures

Emergency and First Aid No data available.

Procedures:

5. Fire Fighting Measures			
Flash Pt:	0.50 C (32.9 F) Method Used: TAG Closed Cup		
Explosive Limits:	LEL: No data. UEL: No data.		
Autoignition Pt:	425.00 C (797.0 F)		
Suitable Extinguishing Media:No data available.			
Fire Fighting Instructions:	No data available.		
Flammable Properties and Hazards:	No data available.		
Hazardous Combustion Products:	No data available.		
6. Accidental Release Measures			
Steps To Be Taken In Case Material Is Released Or Spilled:	No data available.		
7. Handling and Storage			
Precautions To Be Taken in Handling:	No data available.		



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		-	ontrols/Personal			
CAS #	Partial Chemica	I Name	OSHA TWA	ACGIH TWA	Other Limits	
25085-75-0	Formaldehyde, p	-	No data.	No data.	No data.	
		ylidene)bis[phenol]				
80-05-7	4,4'-Isopropylider	nediphenol	No data.	No data.	No data.	
64-17-5	Ethyl alcohol		PEL: 1000 ppm	TLV: 1000 ppm STEL: 1000 ppm	No data.	
78-93-3	Methyl ethyl keto	ne	PEL: 200 ppm	TLV: 200 ppm STEL: 300 ppm	No data.	
NA	NA Proprietary chrome complex		No data.	No data.	No data.	
Personal Pro Equipment S						
Respiratory (Specify Typ		No data available.				
Eye Protection	on:	No data available.				
Protective G	loves:	No data available.				
Other Protec	tive Clothing:	No data available.				
Engineering (Ventilation e		No data available.				
(1011111111111		9 Physical	and Chemical Pro	onartias		
Dhysical Sta	too	[]Gas [X]L				
Physical Sta		Black.	iquid [] Solid			
Appearance	opearance and Odor: Black. Ketone odor.					
pH:		No data.				
Melting Poin	t:					
Boiling Point						
Flash Pt:			Method Used: TAG Close	ed Cup		
Evaporation	Rate:	No data.				
Flammability	/ (solid, gas):	No data available.				
Explosive Li	mits:	LEL: No data.	UEL: No da	ta.		
Vapor Press mm Hg):	ressure (vs. Air or No data.					
-	ty (vs. Air = 1):	No data.				
-	vity (Water =					
Density:		~ 0.829 g/mL				
Solubility in	Water:	No data.				
Saturated Va Concentratio	apor	No data.				
Octanol/Wate Coefficient:		No data.				
Autoignition	Pt:	425.00 C (797.0 F)			
Decompositi Temperature	ion	No data.				
Viscosity:	-	No data.				



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10. Stability and Reactivity				
Stability:	Unstable [] Stable [X]			
Conditions To Avoid - Instability:	No data available.			
Incompatibility - Materials To Avoid:	> No data available.			
Hazardous Decomposition o Byproducts:	r No data available.			
Possibility of Hazardous	Will occur [] Will not occur [X]			
Reactions:				
Conditions To Avoid -	No data available.			
Hazardous Reactions:				
	11. Toxicological Information			
Toxicological Information:	CAS# 78-93-3:			
	 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.			
	- 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			
	5. Acute toxicity, LD50, Skin, Species: Rabbit, 6480. MG/KG. Result:			
	Behavioral: Hallucinations, distorted perceptions.			
	Endocrine:Effect on menstrual cycle.			



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- 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

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
25085-75-0	Formaldehyde, polymer with 4,4'-(1-methylethylidene)bis[phenol]	n.a.	n.a.	n.a.	n.a.
80-05-7	4,4'-Isopropylidenediphenol	n.a.	n.a.	n.a.	n.a.
64-17-5	Ethyl alcohol	n.a.	1	Unknown	n.a.
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.

13. Disposal Considerations

Waste Disposal Method:

No data available.

14. Transport Information



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LAND TRANSPORT (US DOT):

Printing ink, [flammable or] Printing ink related material [(including printing ink **DOT Proper Shipping Name:** thinning or reducing compound), flammable] 3 FLAMMABLE LIQUID **DOT Hazard Class:** UN1210 Ш **UN/NA Number: Packing Group:** LAND TRANSPORT (Canadian TDG): **TDG Shipping Name:** Ш **UN Number:** UN1210 **Packing Group:** Hazard Class: 3 - FLAMMABLE LIQUID **TDG Classification:** 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) 25085-75-0 Formaldehyde, polymer with No No No 4,4'-(1-methylethylidene)bis[phenol] 80-05-7 4,4'-Isopropylidenediphenol Yes No No 64-17-5 Ethyl alcohol No No No 78-93-3 Methyl ethyl ketone Yes NA No No NA Proprietary chrome complex No No No This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated: [] Yes [X] No Acute toxicity (any route of exposure) [] Yes [X] No Explosive [X] Yes [] No Flammable (gases, aerosols, liquid, or solid) [X] Yes [] No Skin Corrosion or Irritation [] Yes [X] No Oxidizer (liquid, solid or gas) [X] Yes [] No Serious eye damage or eye irritation Self-reactive [] Yes [X] No Respiratory or Skin Sensitization [X] Yes [] No [] Yes [X] No [] Yes [X] No Pyrophoric (liquid or solid) Germ cell mutagenicity [] Yes [X] No Pyrophoric gas [] Yes [X] No Carcinogenicity [] Yes [X] No Self-heating [X] Yes [] No Reproductive toxicity Specific target organ toxicity (single or repeated exposure) [] Yes [X] No Organic peroxide [X] Yes [] No [] Yes [X] No Corrosive to metal [] Yes [X] No Aspiration Hazard Gas under pressure (compressed gas) [] Yes [X] No [] Yes [X] No Simple Asphyxiant [] Yes [X] No In contact with water emits flammable gas [] Yes [X] No (Health) Hazard Not Otherwise Classified (HNOC) [] Yes [X] No Combustible Dust [] Yes [X] No (Physical) Hazard Not Otherwise Classified (HNOC) Canadian NPRI Canadian DSL CAS# Hazardous Components (Chemical Name) **Canadian Toxic** 25085-75-0 Formaldehyde, polymer with No Yes No 4,4'-(1-methylethylidene)bis[phenol] 80-05-7 4,4'-Isopropylidenediphenol Yes: Part 1B Yes - 96. Yes Yes: Part 5 64-17-5 Ethyl alcohol Yes 78-93-3 Methyl ethyl ketone Yes: Part 5 No Yes NA Proprietary chrome complex No No No California Proposition 65 This product can expose you to chemicals including Naphthalene; Styrene and Formaldehyde, WARNING which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov. This product can expose you to chemicals including Bisphenol A (BPA) and Toluene, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. CAS# Hazardous Components (Chemical Name) Other US EPA or State Lists 25085-75-0 Formaldehyde, polymer with **TSCA:** Inventory

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	4,4'-(1-methylethylidene)bis[phenol]	
80-05-7	4,4'-Isopropylidenediphenol	TSCA: Inventory
		CA PROP.65: Yes: RDTox(F)
		CA TAC, Title 8: TAC: Cat. IVb
64-17-5	Ethyl alcohol	TSCA: Inventory
		CA TAC, Title 8: Title 8
78-93-3	Methyl ethyl ketone	TSCA: Inventory
		CA TAC, Title 8: TAC: Cat. IIa, Title 8
		NC TAP: Yes: NC TAP
NA	Proprietary chrome complex	
CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
25085-75-0	Formaldehyde, polymer with	Japan ENCS: 7-915
	4,4'-(1-methylethylidene)bis[phenol]	REACH: (P)
80-05-7	4,4'-Isopropylidenediphenol	Japan ENCS: 4-123
		Germany WHCS: 1308: WGK 2
		Switzerland Giftliste 1: G-2163
		REACH: 01-2119457856-23: Full, (P)
64-17-5	Ethyl alcohol	Japan ENCS: 5-153
		Israel HSL: Cat.
		Germany WHCS: 96: WGK 1
		Switzerland Giftliste 1: G-1158
70.00.0		REACH: 01-2119457610-43: Full, (P)
78-93-3	Methyl ethyl ketone	Mexico INSQ: 1193
		Japan ENCS: 2-542 Germany WHCS: 150: WGK 1
		Switzerland Giftliste 1: G-2429
		REACH: 01-2119457290-43: Full, (P)
NA	Proprietary chrome complex	REACH: (P)
11/4	i tophetary chrome complex	

16. Other Information

Revision Date: 05/01/2019 **Previous revision:** 01/11/2019 Flammability Instability Hazard Rating System: HEALTH 1 FLAMMABILITY 3 PHYSICAL 0 Health PPE в NFPA: HMIS: Special Hazard

Additional Information About No data available.

This Product:

Company Policy or Disclaimer: 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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