

This SDS complies with the US OSHA HCS 2012 and the Canadian Hazardous Products Regulations of 2015.

### 1. Product and Company Identification

**Product Name:** JP-K414ci, 1414Kci

**Company Name:** Hitachi Industrial Equipment & Solutions America, LLC  
 75 NW Point Blvd Suite D,  
 Elk Grove Village, IL 60007

**Phone Number:** (800)627-5464

**Web site address:** <https://mc.hitachi-iesa.com>

**Emergency Contact:** Chemtrec (800)424-9300

**Intended Use:** Printing ink related material for industrial inkjet printers.

### 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, CO<sub>2</sub>, 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.

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.  
 P403+233 - Store container tightly closed in well-ventilated place.  
 P403+235 - Store in cool/well-ventilated place. P405 - Store locked up.  
 P501 - Dispose of contents/container ...

### GHS Storage and Disposal Phrases:

### 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 Procedures:** No data available.

## 5. Fire Fighting Measures

**Flash Point:** 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.

### 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
25085-75-0	Formaldehyde, polymer with 4,4'-(1-methylethylidene)bis[phenol]	No data.	No data.	No data.
80-05-7	4,4'-Isopropylidenediphenol	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 ketone	PEL: 200 ppm	TLV: 200 ppm STEL: 300 ppm	No data.
NA	Proprietary chrome complex	No data.	No data.	No data.

#### Personal Protective Equipment Symbols:



**Respiratory Equipment (Specify Type):** No data available.

**Eye Protection:** No data available.

**Protective Gloves:** No data available.

**Other Protective Clothing:** No data available.

**Engineering Controls (Ventilation etc.):** No data available.

### 9. Physical and Chemical Properties

<b>Physical States:</b>	[ ] Gas [ X ] Liquid [ ] Solid
<b>Appearance and Odor:</b>	Black. Ketone odor.
<b>pH:</b>	No data.
<b>Melting Point:</b>	-89.50 C (-129.1 F) - 159.00 C (318.2 F)
<b>Boiling Point:</b>	80.00 C (176.0 F)
<b>Flash Point:</b>	0.50 C (32.9 F) TAG Closed Cup
<b>Evaporation Rate:</b>	No data.
<b>Flammability (solid, gas):</b>	No data available.
<b>Explosive Limits:</b>	LEL: No data. UEL: No data.
<b>Vapor Pressure:</b>	No data.
<b>Vapor Density (vs. Air=1):</b>	No data.
<b>Specific Gravity (Water=1):</b>	No data.
<b>Density:</b>	~ 0.829 g/mL
<b>Solubility in Water:</b>	No data.
<b>Saturated Vapor Concentration:</b>	No data.
<b>Octanol/Water Partition Coefficient:</b>	No data.
<b>Autoignition Pt:</b>	425.00 C (797.0 F)
<b>Decomposition Temperature:</b>	No data.

**Viscosity:** No data.

### 10. Stability and Reactivity

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid - Instability:** No data available.

**Incompatibility - Materials To Avoid:** No data available.

**Hazardous Decomposition or Byproducts:** No data available.

**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Reactions:** No data available.

### 11. Toxicological Information

**Toxicological Information:** CAS# 64-17-5:

1. Acute toxicity, TDLo, Oral, Human, 3371. UL/KG.  
 Result:  
 Behavioral: Altered sleep time (including change in righting reflex).  
 Behavioral: Excitement.  
 Behavioral: Coma.  
 - Veterinary and Human Toxicology., American College of Veterinary and Comparative Toxicology, Publication Office, Comparative Toxicology, Manhattan, KS 66506, Vol/p/yr: 21,272, 1979

2. Acute toxicity, TDLo, Oral, Human, 700.0 MG/KG.  
 Result:  
 Behavioral: Changes in psychophysiological tests.  
 - Neurobehavioral Toxicology and Teratology., For publisher information, see NETEEC, Fayetteville, NY, Vol/p/yr: 8,77, 1986

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	A4	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

#### LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Printing ink.  
**DOT Hazard Class:** 3 FLAMMABLE LIQUID  
**UN/NA Number:** UN1210 **Packing Group:** II



#### LAND TRANSPORT (Canadian TDG):

**TDG Shipping Name:** Printing ink.  
**UN Number:** UN1210 **Packing Group:** II  
**Hazard Class:** 3 - FLAMMABLE LIQUID **TDG Classification:**

#### LAND TRANSPORT (European ADR/RID):

**ADR/RID Shipping Name:** Printing ink.  
**UN Number:** UN1210 **Packing Group:** II  
**Hazard Class:** 3 - FLAMMABLE LIQUID

#### MARINE TRANSPORT (IMDG/IMO):

**IMDG/IMO Shipping Name:** Printing ink.  
**UN Number:** UN1210 **Packing Group:** II  
**Hazard Class:** 3 - FLAMMABLE LIQUID

#### AIR TRANSPORT (ICAO/IATA):

**ICAO/IATA Shipping Name:** Printing ink.  
**UN Number:** UN1210 **Packing Group:** II  
**Hazard Class:** 3 - FLAMMABLE LIQUID

### 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 4,4'-(1-methylethylidene)bis[phenol]	No	No	No
80-05-7	4,4'-Isopropylidenediphenol	No	No	Yes (5%)
64-17-5	Ethyl alcohol	No	No	No
78-93-3	Methyl ethyl ketone	No	Yes NA	No
NA	Proprietary chrome complex	No	No	No

#### EPA SARA Title III Section 313 Toxic Release Inventory.

This product contains a toxic chemical or chemicals subject to the reporting requirements of EPCRA Section 313 (40 CFR Section 372).

#### This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Explosive	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Acute toxicity (any route of exposure)
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flammable (gases, aerosols, liquid, or solid)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Skin Corrosion or Irritation
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Oxidizer (liquid, solid or gas)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Serious eye damage or eye irritation
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Self-reactive	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Respiratory or Skin Sensitization
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pyrophoric (liquid or solid)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Germ cell mutagenicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pyrophoric gas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Carcinogenicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Self-heating	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Reproductive toxicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Organic peroxide	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Specific target organ toxicity (single or repeated exposure)

<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corrosive to metal	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Aspiration Hazard
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Gas under pressure (compressed gas)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Simple Asphyxiant
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	In contact with water emits flammable gas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(Health) Hazard Not Otherwise Classified (HNOC)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Combustible Dust		
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(Physical) Hazard Not Otherwise Classified (HNOC)		

CAS #	Hazardous Components (Chemical Name)	Canadian NPRI	Canadian Toxic	Canadian DSL
25085-75-0	Formaldehyde, polymer with 4,4'-(1-methylethylidene)bis[phenol]	No	No	Yes
80-05-7	4,4'-Isopropylidenediphenol	Yes: Part 1B	Yes - 96.	Yes
64-17-5	Ethyl alcohol	Yes: Part 5		Yes
78-93-3	Methyl ethyl ketone	Yes: Part 5	No	Yes
NA	Proprietary chrome complex	No	No	No

### California Proposition 65



#### WARNING

This product can expose you to chemicals including Naphthalene; Styrene and Formaldehyde, which are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://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](http://www.P65Warnings.ca.gov).

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
25085-75-0	Formaldehyde, polymer with 4,4'-(1-methylethylidene)bis[phenol]	TSCA: Inventory
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 4,4'-(1-methylethylidene)bis[phenol]	Japan ENCS: 7-915 REACH: (P)
80-05-7	4,4'-Isopropylidenediphenol	Japan ENCS: 4-123 Germany WHCS: 1308: WGK 2 Switzerland Giftliste 1: G-2163 REACH: (P), 01-2119457856-23: Full, SVHC, Res. - 66.
64-17-5	Ethyl alcohol	Japan ENCS: 5-153 Israel HSL: Cat. Germany WHCS: 96: WGK 1 Switzerland Giftliste 1: G-1158 REACH: (P), 01-2119457610-43: Full
78-93-3	Methyl ethyl ketone	Mexico INSQ: 1193 Japan ENCS: 2-542 Germany WHCS: 150: WGK 1 Switzerland Giftliste 1: G-2429 REACH: (P), 01-2119457290-43: Full
NA	Proprietary chrome complex	REACH: (P)

### 16. Other Information

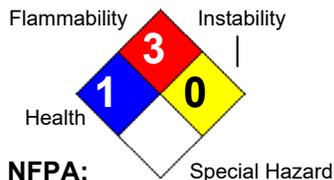
Revision Date: 05/02/2023

Previous revision: 05/01/2019

Hazard Rating System:

HEALTH		1
FLAMMABILITY		3
PHYSICAL		0
PPE		B

HMIS:



**Additional Information About This Product:**

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.