

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

**1. Product and Company Identification**

**Product Name:** JP-K408ci, 2408Kci  
**Company Name:** Hitachi Industrial Equipment & Solutions America, LLC  
**Phone Number:** (866)583-0048  
2730 Greenleaf Avenue  
Elk Grove Village, IL 60007  
**Web site address:** <http://www.hitachi-america.us/ice/markings-and-coding>  
**Emergency Contact:** Chemtrec (800)424-9300  
**Information:** Christian Krzykwa (980)500-7144  
**Intended Use:** Printing ink

**2. Hazards Identification**

Flammable Liquids, Category 2  
Serious Eye Damage/Eye Irritation, Category 2A  
Specific Target Organ Toxicity (single exposure), Category 3  
Flammable Liquids, Category 3  
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 (repeated exposure), Category 1  
Aspiration Toxicity, Category 2



**GHS Signal Word:** Danger

**GHS Hazard Phrases:** H332 - Harmful if inhaled.  
H302 - Harmful if swallowed.  
H225 - Highly flammable liquid and vapor.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H336 - May cause drowsiness or dizziness.  
Causes respiratory irritation.  
H370 - Causes damage to kidneys  
H371 - May cause damage to organs .  
H372 - Causes damage to central and peripheral nervous systems through prolonged or repeated exposure.

**GHS Precaution Phrases:** P202 - Do not handle until all safety precautions have been read and understood.  
P201 - Obtain special instructions before use.  
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.

<b>GHS Response Phrases:</b>	<p>P271 - Use only outdoors or in a well-ventilated area.</p> <p>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</p> <p>P302+352 - IF ON SKIN: Wash with plenty of soap and water.</p> <p>P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308+311 - If exposed or concerned: Call a POISON CENTER/Doctor/...</p> <p>P312 - Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P314 - Get medical attention/advice if you feel unwell.</p> <p>P321 - Specific treatment see ... on this label.</p> <p>P331 - Do NOT induce vomiting.</p> <p>P332+313 - If skin irritation occurs, get medical advice/attention.</p> <p>P337+313 - If eye irritation persists, get medical advice/attention.</p> <p>P362+364 - Take off contaminated clothing and wash it before reuse.</p>
<b>GHS Storage and Disposal Phrases:</b>	<p>P403+233 - Store container tightly closed in well-ventilated place. P405 - Store locked up.</p> <p>P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.</p>
<b>Emergency Overview:</b>	
<b>Potential Health Effects (Acute and Chronic):</b>	Hazards not otherwise classified (HNOC) or not covered by GHS. Hazards not otherwise classified (HNOC) or not covered by GHS -none.

### 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
67-64-1	Acetone	50.0 -70.0 %
64-17-5	Ethyl alcohol	5.0 -15.0 %
100-42-5	Styrene	< 0.1 %
98-83-9	.alpha.-Methyl styrene	< 0.1 %
100-41-4	Ethylbenzene	< 0.1 %

### 4. First Aid Measures

<b>Emergency and First Aid Procedures:</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
<b>In Case of Inhalation:</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>In Case of Skin Contact:</b>	Wash off with soap and plenty of water. Consult a physician.
<b>In Case of Eye Contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>In Case of Ingestion:</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<b>Signs and Symptoms Of Exposure:</b>	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
<b>Indication of any immediate medical attention and special treatment needed:</b>	No data available.

## 5. Fire Fighting Measures

<b>Flash Pt:</b>	-15.20 C (4.6 F) Method Used: TAG Closed Cup
<b>Explosive Limits:</b>	LEL: 1.2%vol UEL: 13%vol
<b>Autoignition Pt:</b>	
<b>Suitable Extinguishing Media:</b>	Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.
<b>Fire Fighting Instructions:</b>	Wear self contained breathing apparatus for fire fighting if necessary. Further information.
<b>Flammable Properties and Hazards:</b>	Carbon oxides.
<b>Hazardous Combustion Products:</b>	

## 6. Accidental Release Measures

<b>Protective Precautions, Protective Equipment and Emergency Procedures:</b>	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.
<b>Environmental Precautions:</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	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

<b>Precautions To Be Taken in Handling:</b>	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.
<b>Precautions To Be Taken in Storing:</b>	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature: 2 - 8 deg.C. Storage class 510)
<b>Other Precautions:</b>	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
67-64-1	Acetone	PEL: 1000 ppm	TLV: 250 ppm STEL: 500 ppm	
64-17-5	Ethyl alcohol	PEL: 1000 ppm	TLV: 1000 ppm STEL: 1000 ppm	
100-42-5	Styrene	PEL: 100 ppm STEL: 600 ppm/(5min/3hr) CEIL: 200 ppm	TLV: 20 ppm STEL: 40 ppm	
98-83-9	.alpha.-Methyl styrene	CEIL: 100 ppm	TLV: 10 ppm STEL: 100 ppm	
100-41-4	Ethylbenzene	PEL: 100 ppm	TLV: 20 ppm STEL: 125 ppm	

<b>Respiratory Equipment (Specify Type):</b>	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).
<b>Eye Protection:</b>	Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
<b>Protective Gloves:</b>	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.
<b>Other Protective Clothing:</b>	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.
<b>Engineering Controls (Ventilation etc.):</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>Work/Hygienic/Maintenance Practices:</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>Environmental Exposure Controls:</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**9. Physical and Chemical Properties**

<b>Physical States:</b>	<input type="checkbox"/> Gas <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid
<b>Appearance and Odor:</b>	Black. solvent odor.
<b>pH:</b>	
<b>Melting Point:</b>	
<b>Boiling Point:</b>	
<b>Flash Pt:</b>	-15.20 C (4.6 F)    Method Used: TAG Closed Cup
<b>Evaporation Rate:</b>	
<b>Flammability (solid, gas):</b>	
<b>Explosive Limits:</b>	LEL: 1.2%vol                      UEL: 13%vol
<b>Vapor Pressure (vs. Air or mm Hg):</b>	24.7 kPa
<b>Vapor Density (vs. Air = 1):</b>	2.00 - (Acetone)
<b>Specific Gravity (Water = 1):</b>	.875      at 25.0 C (77.0 F)
<b>Solubility in Water:</b>	Soluble
<b>Octanol/Water Partition Coefficient:</b>	
<b>Autoignition Pt:</b>	
<b>Decomposition Temperature:</b>	
<b>Viscosity:</b>	

## 10. Stability and Reactivity

**Reactivity:** No data available.

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

**Conditions To Avoid - Instability:** Heat, flames and sparks. Extremes of temperature and direct sunlight.

**Incompatibility - Materials To Avoid:** Strong oxidizing agents, Strong reducing agents, Bases, Strong oxidizing agents.

**Hazardous Decomposition or Byproducts:** 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:** Vapors may form explosive mixture with air. No data available.

## 11. Toxicological Information

**Toxicological Information:** Germ cell mutagenicity: No data available.  
Reproductive toxicity. Aspiration hazard: Acute toxicity.  
Inhalation: Dermal.

**Irritation or Corrosion:** Skin corrosion/irritation. Provide adequate ventilation.  
Result: Tumorigenic:Tumors at site or application. Mild eye irritation -24. Serious eye damage/eye irritation: Eyes - rabbit -  
No data available. Serious eye damage/eye irritation no data available.

**Sensitization:** Guinea pig 88%, 4  
Result: Tumorigenic:Tumors at site or application. No data available.

**Chronic Toxicological Effects:** Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.  
Specific target organ toxicity - repeated exposure: Specific target organ toxicity -single exposure (Globally Harmonized System) No data available.  
Specific target organ toxicity -repeated exposure: no data available.

**Carcinogenicity/Other Information:** This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. 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
67-64-1	Acetone	n.a.	n.a.	A4	n.a.
64-17-5	Ethyl alcohol	n.a.	1	A4	n.a.
100-42-5	Styrene	Possible	2B	A4	n.a.
98-83-9	.alpha.-Methyl styrene	n.a.	2B	n.a.	n.a.
100-41-4	Ethylbenzene	n.a.	2B	A3	n.a.

## 12. Ecological Information

<b>General Ecological Information:</b>	No data available.
<b>Results of PBT and vPvB assessment:</b>	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
<b>Persistence and Degradability:</b>	Biodegradability Result: 91 % -Readily biodegradable. - Readily biodegradable. No data available.
<b>Bioaccumulative Potential:</b>	Does not bioaccumulate. No data available.
<b>Mobility in Soil:</b>	No data available.
<b>Other adverse effects:</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life. No data available.

## 13. Disposal Considerations

<b>Waste Disposal Method:</b>	<p>Product:</p> <p>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.</p> <p>Contaminated packaging:</p>
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## 14. Transport Information

### LAND TRANSPORT (US DOT):

<b>DOT Proper Shipping Name:</b>	Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]		
<b>DOT Hazard Class:</b>	3	FLAMMABLE LIQUID	
<b>UN/NA Number:</b>	UN1210	<b>Packing Group:</b>	II



### LAND TRANSPORT (Canadian TDG):

<b>TDG Shipping Name:</b>			
<b>UN Number:</b>	1210	<b>Packing Group:</b>	II
<b>Hazard Class:</b>	3 - FLAMMABLE LIQUID	<b>TDG Classification:</b>	

## 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)
67-64-1	Acetone	No	Yes 5000 LB	No
64-17-5	Ethyl alcohol	No	No	No
100-42-5	Styrene	No	Yes 1000 LB	Yes
98-83-9	.alpha.-Methyl styrene	No	No	No
100-41-4	Ethylbenzene	No	Yes 1000 LB	Yes

### 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Acute toxicity (any route of exposure)
<input type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Yes <input 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
67-64-1	Acetone	No	No	Yes
64-17-5	Ethyl alcohol	Yes: Part 5		Yes
100-42-5	Styrene	Yes: Part 5		Yes
98-83-9	.alpha.-Methyl styrene	No	No	Yes
100-41-4	Ethylbenzene	Yes: Part 1A	No	Yes

**California Proposition 65**



**WARNING**

This product can expose you to chemicals including Styrene; .alpha.-Methyl styrene and Ethylbenzene, 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).

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
67-64-1	Acetone	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; NC TAP: No
64-17-5	Ethyl alcohol	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; NC TAP: No
100-42-5	Styrene	TSCA: Yes - Inventory, 8A CAIR; CA PROP.65: Yes: Canc.; CA TAC, Title 8: TAC: Cat. IIa, Title 8; NC TAP: Yes: NC TAP
98-83-9	.alpha.-Methyl styrene	TSCA: Yes - Inventory, 8D TERM; CA PROP.65: Yes: Canc.; CA TAC, Title 8: Title 8; NC TAP: No
100-41-4	Ethylbenzene	TSCA: Yes - Inventory; CA PROP.65: Yes: Canc.; CA TAC, Title 8: TAC: Cat. IIa, Title 8; NC TAP: Yes: US HAP

CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
67-64-1	Acetone	Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; Japan ENCS: Yes - 2-542; Japan ISHL: No; Israel HSL: No; Germany WHCS: Yes - 6: WGK 1; Switzerland Giftliste 1: Yes - G-1031; Switzerland INNS: No; REACH: Yes - 01-2119471330-49: Full, (P); Rotterdam: No
64-17-5	Ethyl alcohol	Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; Japan ENCS: Yes - 5-153; Japan ISHL: No; Israel HSL: Yes - Cat.; Germany WHCS: Yes - 96: WGK 1; Switzerland Giftliste 1: Yes - G-1158; Switzerland INNS: No; REACH: Yes - 01-2119457610-43: Full, (P); Rotterdam: No
100-42-5	Styrene	Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; Japan ENCS: Yes - 9-2603; Japan ISHL: No; Israel HSL: No; Germany WHCS: Yes - 187: WGK 2; Switzerland Giftliste 1: Yes - G-2896; Switzerland INNS: No; REACH: Yes - 01-2119457861-32: Full, (P); Rotterdam: No
98-83-9	.alpha.-Methyl styrene	Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; Japan ENCS: Yes - 9-2603; Japan ISHL: No; Israel HSL: No; Germany WHCS: No; Switzerland Giftliste 1: Yes - G-2534; Switzerland INNS: No; REACH: Yes - 01-2119472426-35: Full, (P); Rotterdam: No
100-41-4	Ethylbenzene	Mexico INSQ: Yes - 1175; Australia ICS: Yes; New Zealand IOC: Yes; Japan ENCS: Yes - 3-60; Japan ISHL: No; Israel HSL: No; Germany WHCS: Yes - 99: WGK 1; Switzerland Giftliste 1: Yes - G-1165; Switzerland INNS: No; REACH: Yes - 01-2119489370-35: Full, (P); Rotterdam: No

Canadian WHMIS Classification:

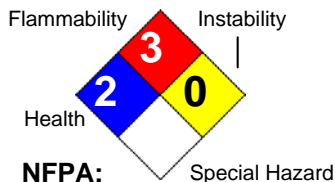
**16. Other Information**

Revision Date: 08/16/2018

Hazard Rating System:

HEALTH		2
FLAMMABILITY		3
PHYSICAL		0
PPE		B

HMIS:



Additional Information About

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.

Hitachi Contact Information:

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