

Page: 1

Revision: 08/16/2018 Supersedes Revision: 08/13/2018

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

#### 1. Product and Company Identification

Product Name: JP-K26, 1026K

Company Name: Hitachi Industrial Equipment & Solutions Phone Number:

America, LLC

(866)583-0048

2730 Greenleaf Avenue Elk Grove Village, IL 60007

Web site address: http://www.hitachi-america.us/ice/marking-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

Acute Toxicity: Oral, Category 3
Acute Toxicity: Inhalation, Category 3
Acute Toxicity: Skin, Category 3

Specific Target Organ Toxicity (single exposure), Category 1









GHS Signal Word: Danger

**GHS Hazard Phrases:** H225 - Highly flammable liquid and vapor.

H301 - Toxic if swallowed.

H311 - Toxic in contact with skin. H370 - Causes damage to kidneys H319 - Causes serious eye irritation.

H331 - Toxic if inhaled.

H336 - May cause drowsiness or dizziness.

H372 - Causes damage to nervous system through prolonged or repeated exposure.

GHS Precaution Phrases: 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.

GHS Response Phrases: P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+352 - IF ON SKIN: Wash with plenty of soap and water.

P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated

clothing. Rinse skin with water/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

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Page: 2

Supersedes Revision: 08/13/2018

Revision: 08/16/2018

contact lenses, if present and easy to do. Continue rinsing.

P308+311 - If exposed of concerned: Call a POISON CENTER/Doctor/...

P311 - Call a POISON CENTER or doctor/physician.

P330 - Rinse mouth.

P337+313 - If eye irritation persists, get medical advice/attention.

P361+364 - Take off immediately all contaminated clothing and wash it before reuse.

**GHS Storage and Disposal** 

P403+233 - Store container tightly closed in well-ventilated place.

Phrases:

P405 - Store locked up.

P501 - Dispose of contents/container ...

**Emergency Overview:** 

Potential Health Effects (Acute and Chronic):

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
78-93-3 Methyl ethyl ketone 55.0 -65.0 %
67-56-1 Methanol 5.0 -15.0 %

#### 4. First Aid Measures

**Emergency and First Aid** 

**Procedures:** 

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of

dangerous area.

In Case of Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

In Case of Skin Contact: Wash off with soap and plenty of water. Consult a physician. Take victim immediately to

hospital.

**In Case of Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Flush eyes with water as a precaution.

In Case of Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Rinse mouth with water. Consult a physician.

Signs and Symptoms Of

**Exposure:** 

The most important known symptoms and effects are described in the labelling (see

section 2.2) and/or in section 11

Indication of any immediate

medical attention and special

treatment needed:

#### 5. Fire Fighting Measures

Flash Pt: -8.00 C (17.6 F) Method Used: TAG Closed Cup

No data available.

Explosive Limits: LEL: 1.7 UEL: 11.4

**Autoignition Pt:** 

Suitable Extinguishing Media: 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

Carbon oxides,

Hazards:

Flash back possible over considerable distance. Container explosion may occur under

fire conditions. No data available.

**Hazardous Combustion** 

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Page: 3

Revision: 08/16/2018 Supersedes Revision: 08/13/2018

#### 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. Wear respiratory protection.

Environmental Precautions: Steps To Be Taken In Case Material Is Released Or Spilled: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. 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:

Store under inert gas. 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. Hygroscopic.

Storage class 510) Recommended storage temperature: 2 -8 - 8 deg.C.

Other Precautions:

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated. 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
78-93-3	Methyl ethyl ketone	PEL: 200 ppm	TLV: 200 ppm STEL: 300 ppm	
67-56-1	Methanol	PEL: 200 ppm	TLV: 200 ppm STEL: 250 ppm	

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). Respiratory:

**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. Complete suit

protecting against chemicals.

Engineering Controls (Ventilation etc.):

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Avoid contact with skin, eyes and clothing.

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Page: 4

Revision: 08/16/2018 Supersedes Revision: 08/13/2018

Wash hands before breaks and immediately after handling the product.

Environmental Exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Controls:

9. Physical and Chemical Properties

Physical States: [ ] Gas [ X ] Liquid [ ] Solid

Appearance and Odor: Black.

solvent odor.

pH:

**Melting Point:** 

**Boiling Point:** ~ 80.00 C (176.0 F)

Flash Pt: -8.00 C (17.6 F) Method Used: TAG Closed Cup

**Evaporation Rate:** 

Flammability (solid, gas):

Explosive Limits: LEL: 1.7 UEL: 11.4 Vapor Pressure (vs. Air or ~ 10.5 kPa at 20.0 C (68.0 F)

mm Hg):

Vapor Density (vs. Air = 1): 2.41 (Air=1)

Specific Gravity (Water = 1): .90
Solubility in Water: 29g/mL

Octanol/Water Partition

Coefficient:
Autoignition Pt:

**Decomposition Temperature:** 

Viscosity:

## 10. Stability and Reactivity

Reactivity: No data available.

Stability: Unstable [ ] Stable [ X ]

Conditions To Avoid - Exposure to moisture. Heat, flames and sparks. Extremes of temperature and direct

Instability: sunlight.

Incompatibility - Materials To Oxidizing agents, Strong reducing agents, Strong oxidizing agents.

Avoid:

Hazardous Decomposition or No data available. In the event of fire: see section 5. Hazardous decomposition products

**Byproducts:** formed under fire conditions. -Carbon oxides.

Possibility of Hazardous

Will occur [ ] Will not occur [ X ]

Reactions:

**Conditions To Avoid -** Vapors may form explosive mixture with air.

Hazardous Reactions:



Page: 5

Revision: 08/16/2018 Supersedes Revision: 08/13/2018

11. Toxicological Information

**Toxicological Information:** Acute toxicity.

Germ cell mutagenicity: No data available.

Reproductive toxicity. Aspiration hazard: Inhalation: Dermal.

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 . No data available. Serious eye damage/eye irritation no data available.

**Sensitization:** No data available.

**Chronic Toxicological** 

Effects:

Specific target organ toxicity -repeated exposure: no data available. No data available.

Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.

Carcinogenicity/Other

Information:

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.

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.
67-56-1	Methanol	n.a.	n.a.	n.a.	n.a.

## 12. Ecological Information

General Ecological

No data available.

Information:

Results of PBT and vPvB

assessment:

PBT/vPvB assessment not available as chemical safety assessment not required/not

conducted.

Persistence and

No data available.

Degradability:

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 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

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Page: 6

Revision: 08/16/2018 Supersedes Revision: 08/13/2018

.AND TRANSPORT (US DOT):
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DOT Proper Shipping Name: Printing ink, [flammable or] Printing ink related material [(including printing ink

thinning or reducing compound), flammable]

**DOT Hazard Class:** FLAMMABLE LIQUID 3

**UN/NA Number:** UN1210 Ш **Packing Group:** 



#### LAND TRANSPORT (Canadian TDG):

**TDG Shipping Name:** 

**UN Number:** Ш **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)

78-93-3 Methyl ethyl ketone No Yes 5000 LB No 67-56-1 Methanol No Yes 5000 LB Yes

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

[ ] Yes [X] No	Explosive	[X] Yes [ ] No	Acute toxicity (any route of exposure)
[ ] Yes [X] No	Flammable (gases, aerosols, liquid, or solid)	[ ] Yes [X] No	Skin Corrosion or Irritation
[ ] Yes [X] No	Oxidizer (liquid, solid or gas)	[X] Yes [ ] No	Serious eye damage or eye irritation
[ ] Yes [X] No	Self-reactive	[ ] Yes [X] No	Respiratory or Skin Sensitization
[ ] Yes [X] No	Pyrophoric (liquid or solid)	[ ] Yes [X] No	Germ cell mutagenicity
[ ] Yes [X] No	Pyrophoric gas	[ ] Yes [X] No	Carcinogenicity
[ ] Yes [X] No	Self-heating	[ ] Yes [X] No	Reproductive toxicity
[ ] Yes [X] No	Organic peroxide	[X] Yes [ ] No	Specific target organ toxicity (single or repeated exposure)
[ ] Yes [X] No	Corrosive to metal	[ ] Yes [X] No	Aspiration Hazard
[ ] Yes [X] No	Gas under pressure (compressed gas)	[ ] 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)

CAS# **Hazardous Components (Chemical Name) Canadian NPRI Canadian Toxic** Canadian DSL

78-93-3 Methyl ethyl ketone Yes: Part 5 No Yes 67-56-1 Methanol Yes: Part 5 Yes

#### California Proposition 65



CAS#

This product can expose you to chemicals including Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

8 8	
Hazardous Components (Chemical Name)	Other US EPA or State Lists

78-93-3 Me	thyl ethyl ketone	TSCA: Yes - Inventory	/; CA PROP.65: No; CA TAC, Title 8:

TAC: Cat. IIa, Title 8; NC TAP: Yes: NC TAP

TSCA: Yes - Inventory; CA PROP.65: Yes: RDTox.; CA TAC, 67-56-1 Methanol

Title 8: TAC: Cat. IIa, Title 8; NC TAP: Yes: US HAP

#### CAS# **Hazardous Components (Chemical Name) International Regulatory Lists**

78-93-3 Methyl ethyl ketone Mexico INSQ: Yes - 1193; Australia ICS: Yes; New Zealand

IOC: Yes; Japan ENCS: Yes - 2-542; Japan ISHL: No; Israel HSL: No; Germany WHCS: Yes - 150: WGK 1; Switzerland Giftliste 1: Yes - G-2429; Switzerland INNS: No; REACH: Yes

- 01-2119457290-43: Full, (P); Rotterdam: No

67-56-1 Methanol Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC:

Yes; Japan ENCS: Yes - 7-322; Japan ISHL: No; Israel HSL:



Page: 7

Revision: 08/16/2018

Supersedes Revision: 08/13/2018

Yes - Cat.; Germany WHCS: Yes - 145: WGK 1; Switzerland Giftliste 1: Yes - G-2063; Switzerland INNS: No; REACH: Yes

- 01-2119971048-33: Full, (P); Rotterdam: No

**Canadian WHMIS Classification:** 

#### 16. Other Information

**Revision Date:** 08/16/2018

HMIS:

**Hazard Rating System:** 

HEALTH 2
FLAMMABILITY 3
PHYSICAL 0
PPE B



Additional Information About

This Product:

**Company Policy or** 

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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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