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1. Product and Company Identification

Product Name: JP-K72u, 1072K

Trade Name: JP-K72

Company Name: Hitachi Industrial Equipment & Solutions Phone Number:

America, LLC

(866)583-0048

2730 Greenleaf Avenue Elk Grove Village, IL 60007

Web site address: https://www.hitachi-iesa.com/industrial-marking-and-c

oding

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 2

Specific Target Organ Toxicity (single exposure), Category 3

Specific Target Organ Toxicity (single exposure), Category 2

Specific Target Organ Toxicity (single exposure), Category 1

Specific Target Organ Toxicity (repeated exposure), Category 1

Aspiration Toxicity, Category 2
Acute Toxicity: Oral, Category 5
Skin Corrosion/Irritation, Category 2
Acute Toxicity: Inhalation, Category 5







GHS Signal Word: Danger

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

H303 - May be harmful if swallowed.

Causes respiratory irritation. H315 - Causes skin irritation.

H319 - Causes serious eye irritation. H333 - May be harmful if inhaled.

H336 - May cause drowsiness or dizziness. H370 - Causes damage to organs kidneys

H371 - May cause damage to organs .

H372 - Causes damage to organs nervous system 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.



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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

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

P307+311 - IF exposed: Call a POISON CENTER or doctor/physician.

P309+311 - Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P314 - Get medical attention/advice if you feel unwell.

P321 - Specific treatment see supplementary first aid instructions.

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 - Take off contaminated clothing and wash before re-use.

P370+378 - In case of fire, use dry chemical, CO2, water spray, or foam to extinguish.

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 a licensed waste company in accordance with

applicable local/regional/national/international regulations.

Emergency Overview:

Potential Health Effects (Acute and Chronic):

Hazards not otherwise classified (HNOC) or not covered by GHS.

3. Composition/Information on Ingredients

CAS#	Hazardous Components (Chemical Name)	Concentration
78-93-3	Methyl ethyl ketone	80.0 -90.0 %
NA	Proprietary chrome complex	1.0 -10.0 %
67-66-3	Chloroform	< 0.1 %



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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.

In Case of Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. In Case of Ingestion:

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

-2.99 C (26.6 F) Method Used: Closed Cup Flash Pt: LEL: 1.8%vol UEL: 10.1%vol **Explosive Limits:**

No data available.

No data. Autoignition Pt:

Suitable Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.

Wear self contained breathing apparatus for fire fighting if necessary. Fire Fighting Instructions:

Further information.

Flammable Properties and

Carbon oxides.

Hazards:

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:

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:

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)

Apart from the uses mentioned in section 1 no other specific uses are stipulated. Other Precautions:



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8. Exposure Controls/Personal Protection

OSHA TWA ACGIH TWA CAS# **Partial Chemical Name Other Limits** 78-93-3 Methyl ethyl ketone PEL: 200 ppm TLV: 200 ppm No data. STEL: 300 ppm NA Proprietary chrome complex No data. No data. No data. 67-66-3 Chloroform CEIL: 50 ppm TLV: 10 ppm 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

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

Controls:

Physical and Chemical Properties

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

Appearance and Odor: Black.

solvent odor.

pH: Not available

-86.99 C (-124.6 F) **Melting Point: Boiling Point:** 80.00 C (176.0 F)

-2.99 C (26.6 F) Method Used: Closed Cup Flash Pt:

Not available **Evaporation Rate:** No data available. Flammability (solid, gas):

LEL: 1.8%vol UEL: 10.1%vol **Explosive Limits:**

Vapor Pressure (vs. Air or

mm Hg):

95 hPa at 20.0 C (68.0 F)

No data.

2.49 - (Air=1.0) Vapor Density (vs. Air = 1):

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SAFETY DATA SHEET JP-K72u, 1072K

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Specific Gravity (Water =

1):

No data.

Density: 0.805 g/mL
Solubility in Water: soluble
Saturated Vapor No data.

Concentration:

Octanol/Water Partition

Coefficient:

0.29

Autoignition Pt: Decomposition

No data. No data.

Temperature:

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.

Instability:

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

Reactions:

Will occur [] Will not occur [X]

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

Hazardous Reactions:

11. Toxicological Information

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.



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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.

- 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 .



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Sensitization: No data available.

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

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

IARC: No component of this product present at levels greater than or equal to 0.1% is Carcinogenicity/Other identified as probable, possible or confirmed human carcinogen by IARC. Information:

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.
67-66-3	Chloroform	Possible	2B	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

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

LAND TRANSPORT (US DOT):

Printing ink. **DOT Proper Shipping Name:**

DOT Hazard Class: FLAMMABLE LIQUID

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



LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Printing ink.

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

Hazard Class: 3 - FLAMMABLE LIQUID



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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)
78-93-3	Methyl ethyl ketone	No	Yes NA	No
NA	Proprietary chrome complex	No	No	No
67-66-3	Chloroform	Yes 10000 LB	Yes NA	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)
[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
[] 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	[X] Yes [] 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)		

California Proposition 65



This product can expose you to chemicals including Chloroform, which is known to the State of California to cause cancer and 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
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	
67-66-3	Chloroform	TSCA: Inventory, 8A CAIR, 8C
		CA PROP.65: Yes: Canc+RDTox.
		CA TAC, Title 8: TAC: Cat. IIa, Title 8
		NC TAP: Yes: NC TAP
CAS#	Hazardous Components (Chemical Name)	International Regulatory Lists
78-93-3	Methyl ethyl ketone	Mexico INSQ: 1193

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)
67-66-3 Chloroform Mexico INSQ: 1888
Japan ENCS: 2-37

Germany WHCS: 54: WGK 3 Switzerland Giftliste 1: G-1411



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REACH: 01-2119486657-20: Full, (P)

16. Other Information

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Hazard Rating System:



Instability Flammability Health NFPA: Special Hazard

HMIS:

This Product:

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.

> Hitachi Contact Information: Christian Krzykwa (980)500-7144

Company Policy or Disclaimer: