

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2020/878; US OSHA HCS 2015; and Canadian WHMIS 2015.

**Section 1. Identification of the Substance/Mixture and of the Company/Undertaking**

- 1.1 Product Code:** N090383  
**Product Name:** JP-E78  
**X Code:** X(22,53)0383
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- 1.3 Details of the Supplier of the Safety Data Sheet:**  
**Company Name:** Hitachi Industrial Equipment & Solutions America, LLC  
2730 Greenleaf Avenue **Phone Number:**  
Elk Grove Village, IL 60007 (866)583-0048  
**Information:** Christian Krzykwa (980)500-7144
- 1.4 Emergency telephone number:**  
**Emergency Contact:** Chemtrec (800)424-9300

**Section 2. Hazards Identification**

- 2.1 Classification of the Substance or Mixture:**  
Flammable Liquids, Category 2  
Specific Target Organ Toxicity (single exposure), Category 3  
Combustible Dust  
Acute Toxicity: Oral, Category 4
- 2.2 Label Elements:**

**GHS Signal Word:** **Danger****Hazard-determining components of labelling:**

Acetone

Acetic acid, ethyl ester

**GHS Hazard Phrases:**

H225 - Highly flammable liquid and vapor.

H302 - Harmful if swallowed.

H336 - May cause drowsiness or dizziness.

HUS2 - May form combustible dust concentrations in air.

**GHS Precautionary 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.

P261 - Avoid breathing 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.

P235 - Keep cool.

**GHS Response Phrases:**

P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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.

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

P330 - Rinse mouth.

P370+378 - In case of fire, use ... to extinguish.

**GHS Storage and Disposal Phrases:**

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

P405 - Store locked up.

P501 - Dispose of contents/container to ...

**UFI:**

**2.3 Adverse Human Health Hazards** not otherwise classified (HNOC) or not covered by GHS -none. Hazards not **Effects and Symptoms:** otherwise classified (HNOC) or not covered by GHS.

**Section 3. Composition/Information on Ingredients**

CAS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
64-17-5	Ethyl alcohol 01-2119457610-43	50.55 -85.5 %	200-578-6 603-002-00-5	Flam. Liq. 2: H225
67-64-1	Acetone 01-2119471330-49	3.0 -7.5 %	200-662-2 606-001-00-8	Flam. Liq. 2: H225 Eye Damage 2: H319 STOT (SE) 3: H336 EUH066
57-55-6	Propylene glycol 01-2119456809-23	0.9 -5.0 %	200-338-0 NA	No GHS classifications apply.
141-78-6	Acetic acid, ethyl ester 01-2119475103-46	0.45 -1.2 %	205-500-4 607-022-00-5	Flam. Liq. 2: H225 Eye Damage 2: H319 STOT (SE) 3: H335 H336 EUH066
1336-21-6	Ammonium hydroxide 01-2119982985-14	1.0 -5.0 %	215-647-6 007-001-01-2	Skin Corr. 1B: H314 Aquatic (A) 1: H400
NA	Non Hazardous	0.09 -1.0 %	NA NA	No data available.

## Section 4. First Aid Measures

- 4.1 Description of First Aid Measures:** 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 off contaminated clothing and shoes immediately.
- In Case of Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
- In Case of Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
- 4.2 Important Symptoms and Effects, Both Acute and Delayed:** The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 The most important known symptoms and effects are described in the labelling (see section 2 .2) and/or in section 11
- 4.3 Indication of any immediate medical attention and special treatment needed:** No data available.

## Section 5. Fire Fighting Measures

- 5.1 Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.
- 5.2 Flammable Properties and Hazards:** Carbon oxides,  
No data available.  
No data available.
- Flash Pt:** > -17.00 C Method Used: Estimate
- Explosive Limits:** LEL: No data. UEL: No data.
- Autoignition Pt:** > 365.00 C
- 5.3 Fire Fighting Instructions:** Wear self contained breathing apparatus for fire fighting if necessary. Further information. No data available.

## Section 6. Accidental Release Measures

- 6.1 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. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8. Evacuate personnel to safe areas.
- 6.2 Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Methods and materials for containment and cleaning up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
- 6.3 Methods and Material For Containment and Cleaning Up:** 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). Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## Section 7. Handling and Storage

- 7.1 Precautions To Be Taken in Handling:** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2. Use explosion-proof equipment.
- 7.2 Precautions To Be Taken in Storing:** 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 - 8 deg.C.  
Storage class 510) Hygroscopic.
- Other Precautions:** Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## Section 8. Exposure Controls/Personal Protection

### 8.1 Exposure Parameters:

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
64-17-5	Ethyl alcohol	ACGIH TLV	TLV: 1000 ppm STEL: 1000 ppm	
		France VL	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm)	
		OSHA PELs	PEL: 1000 ppm	
		Britain EH40	TWA: 1920 mg/m3 (1000 ppm) STEL: ()	
67-64-1	Acetone	ACGIH TLV	TLV: 250 ppm STEL: 500 ppm	
		Europe	TWA: 1210 mg/m3 (500 ppm)	
		France VL	TWA: 1210 mg/m3 (500 ppm) STEL: 2420 mg/m3 (1000 ppm)	
		OSHA PELs	PEL: 1000 ppm	
		Britain EH40	TWA: 1210 mg/m3 (500 ppm) STEL: 3620 mg/m3 (1500 ppm)	
57-55-6	Propylene glycol	Britain EH40	TWA: 474 mg/m3 (150 ppm) (Particulate)	
141-78-6	Acetic acid, ethyl ester	ACGIH TLV	TLV: 400 ppm	
		France VL	TWA: 1400 mg/m3 (400 ppm)	
		OSHA PELs	PEL: 400 ppm	
		Britain EH40	TWA: (200 ppm) STEL: (400 ppm)	

### 8.2 Exposure Controls:

- 8.2.1 Engineering Controls (Ventilation etc.):** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**8.2.2 Personal protection equipment:**

**Eye Protection:** 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). Safety glasses with side-shields conforming to EN166. Tightly fitting safety goggles. Faceshield (8-inch minimum).

**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. Full contact.

Material: Nitrile rubber, Minimum layer thickness: 0.11 mm, Break through time: 480 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. Splash contact:

Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 113 min.

Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 480 min.

**Other Protective Clothing:** 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. Complete suit protecting against chemicals.

**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).

**Work/Hygienic/Maintenance Practices:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**8.2.3 Environmental Exposure Controls:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Exposure Scenarios:** Discharge into the environment must be avoided.

**Exposure Scenarios:** No data available.

**Section 9. Physical and Chemical Properties**

**9.1 Information on Basic Physical and Chemical Properties**

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid  
**Appearance and Odor:** Color: Red. liquid.  
**pH:** No data.  
**Melting Point:** NA -94.00 - 137.00 C  
**Boiling Point:** 38.00 C - 187.00 C  
**Flash Pt:** > -17.00 C Method Used: Estimate  
**Evaporation Rate:** No data.  
**Saturated Vapor Concentration:** No data.  
**Flammability (solid, gas):** No data available.

<b>Explosive Limits:</b>	LEL: No data.	UEL: No data.
<b>Vapor Pressure (vs. Air or mm Hg):</b>	No data.	
	No data.	
<b>Vapor Density (vs. Air = 1):</b>	No data.	
<b>Specific Gravity (Water = 1):</b>	No data.	
<b>Density:</b>	~ 0.8449 G/ML (~ 7.05 - LB/GA)	
<b>Solubility in Water:</b>	miscible	
<b>Octanol/Water Partition Coefficient:</b>	No data.	
<b>Autoignition Pt:</b>	> 365.00 C	
<b>Decomposition Temperature:</b>	No data.	
<b>Viscosity:</b>	No data.	
<b>Explosive Properties:</b>	No data available.	
<b>Oxidizing Properties:</b>	No data available.	

**9.2 Other Information**

**9.2.1 Information with regard to physical hazard classes**

Information with regard to primary physical hazard:

**9.2.2 Other safety characteristics**

**Section 10. Stability and Reactivity**

<b>10.1 Reactivity:</b>	No data available.
<b>10.2 Stability:</b>	Unstable [ ] Stable [ X ]
<b>10.3 Conditions To Avoid - Hazardous Reactions:</b>	No data available. Vapors may form explosive mixture with air.
<b>Possibility of Hazardous Reactions:</b>	Will occur [ ] Will not occur [ X ]
<b>10.4 Conditions To Avoid - Instability:</b>	Heat, flames and sparks. Extremes of temperature and direct sunlight. No data available.
<b>10.5 Incompatibility - Materials To Avoid:</b>	Strong oxidizing agents. Strong oxidizing agents, Strong reducing agents, Bases, Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing agents, Copper, Iron. Zinc.
<b>10.6 Hazardous Decomposition or Byproducts:</b>	No data available. In the event of fire: see section 5. Other decomposition products:

**Section 11. Toxicological Information**

**11.1 Information on Acute toxicity.**

**Toxicological Effects:** No data available. Inhalation: Dermal. Germ cell mutagenicity. Reproductive toxicity. Aspiration hazard: Kidney, Ureter, Bladder:Changes in both tubules and glomeruli. Blood:Changes in spleen. Behavioral: Muscle contraction or spasticity. (Ammonium hydroxide)

Specific target organ toxicity - single exposure: Specific target organ toxicity - repeated exposure:

**Irritation or Corrosion:** Skin corrosion/irritation. No data available. Serious eye damage/eye irritation no data available. Provide adequate ventilation.

Result: Tumorigenic:Tumors at site or application. Mild eye irritation -24. Serious eye damage/eye irritation: Eyes - rabbit -

Skin: Human.

Mild skin irritation -7 d Serious eye damage/eye irritation Eyes -Rabbit Eyes: Result: Mild skin irritation (OECD Test Guideline 404) Serious eye damage/eye irritation Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3).

**Sensitization:** No data available. Guinea pig 88%, 4

Result: Tumorigenic:Tumors at site or application.

**Chronic Toxicological Effects:** Specific target organ toxicity -single exposure (Globally Harmonized System) No data available.

Specific target organ toxicity -repeated exposure: no data available. Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure:

**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.

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. This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. 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.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
64-17-5	Ethyl alcohol	n.a.	1	A4	n.a.
67-64-1	Acetone	n.a.	n.a.	A4	n.a.
57-55-6	Propylene glycol	n.a.	n.a.	n.a.	n.a.
141-78-6	Acetic acid, ethyl ester	n.a.	n.a.	n.a.	n.a.
1336-21-6	Ammonium hydroxide	n.a.	n.a.	n.a.	n.a.
NA	Non Hazardous	n.a.	n.a.	n.a.	n.a.



## Section 12. Ecological Information

- 12.1 Toxicity:** No data available.
- 12.2 Persistence and Degradability:** No data available. Biodegradability Result: 91 % -Readily biodegradable. - Readily biodegradable.
- 12.3 Bioaccumulative Potential:** No data available. Does not bioaccumulate. Bioaccumulation: other fish - -3.
- 12.4 Mobility in Soil:** No data available.
- 12.5 Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
- 12.6 Other adverse effects:** No data available. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life. Very toxic to aquatic life.

## Section 13. Disposal Considerations

- 13.1 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. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

## Section 14. Transport Information

- GHS Classification:** Flammable Liquids, Category 2 - Danger! Highly flammable liquid and vapor  
Specific Target Organ Toxicity (single exposure), Category 3 - Warning! May cause respiratory irritation, or may cause drowsiness and dizziness  
Combustible Dust - Warning! May form combustible dust concentrations in air.  
Acute Toxicity: Oral, Category 4 - Warning! Harmful if swallowed

### 14.1 LAND TRANSPORT (US DOT):

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



### 14.1 LAND TRANSPORT (Canadian TDG):

- TDG Shipping Name:** Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]
- UN Number:** 1210 **Packing Group:** II
- Hazard Class:** 3 - FLAMMABLE LIQUID **TDG Classification:**

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

- ADR/RID Shipping Name:** Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]
- UN Number:** 1210 II
- Hazard Class:** 3 - FLAMMABLE LIQUID



**14.3 AIR TRANSPORT (ICAO/IATA):**

**ICAO/IATA Shipping Name:** Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]  
**UN Number:** 1210 **Packing Group:** II  
**Hazard Class:** 3 - FLAMMABLE LIQUID

**Section 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)
64-17-5	Ethyl alcohol	No	No	No
67-64-1	Acetone	No	Yes NA	No
57-55-6	Propylene glycol	No	No	No
141-78-6	Acetic acid, ethyl ester	No	Yes NA	No
1336-21-6	Ammonium hydroxide	No	Yes NA	No
NA	Non Hazardous	No	No	No

CAS #	Hazardous Components (Chemical Name)	Canadian NPRI	Canadian Toxic	Canadian DSL
64-17-5	Ethyl alcohol	Yes: Part 5		Yes
67-64-1	Acetone	No	No	Yes
57-55-6	Propylene glycol	No	No	Yes
141-78-6	Acetic acid, ethyl ester	Yes: Part 5	No	Yes
1336-21-6	Ammonium hydroxide	No	No	Yes
NA	Non Hazardous	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
64-17-5	Ethyl alcohol	TSCA: Yes - Inventory; CA PROP.65: No
67-64-1	Acetone	TSCA: Yes - Inventory; CA PROP.65: No
57-55-6	Propylene glycol	TSCA: Yes - Inventory; CA PROP.65: No
141-78-6	Acetic acid, ethyl ester	TSCA: Yes - Inventory; CA PROP.65: No
1336-21-6	Ammonium hydroxide	TSCA: Yes - Inventory; CA PROP.65: No
NA	Non Hazardous	TSCA: No; CA PROP.65: No

CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
64-17-5	Ethyl alcohol	Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 5-153; Japan ISHL: No; Korea ECL: Yes - KE-13217; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: 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)
67-64-1	Acetone	Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 2-542; Japan ISHL: No; Korea ECL: Yes - KE-29367; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: 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)
57-55-6	Propylene glycol	Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 7-62; Japan ISHL: Yes - 2-(8)-323; Korea ECL: Yes - KE-29267; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL:

141-78-6	Acetic acid, ethyl ester	No; Israel HSL: No; Germany WHCS: Yes - 280: WGK 1; Switzerland Gifftliste 1: Yes - G-2798; Switzerland INNS: No; REACH: Yes - 01-2119456809-23: Full, (P)
1336-21-6	Ammonium hydroxide	Mexico INSQ: Yes - 1173; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 2-726; Japan ISHL: No; Korea ECL: Yes - KE-00047; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: Yes - 95: WGK 1; Switzerland Gifftliste 1: Yes - G-1157; Switzerland INNS: No; REACH: Yes - 01-2119475103-46: Full, (P)
NA	Non Hazardous	Mexico INSQ: Yes - 2672; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 1-314; Japan ISHL: No; Korea ECL: Yes - KE-01688; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: Yes - 34022093; Israel HSL: No; Germany WHCS: Yes - 211: WGK 2; Switzerland Gifftliste 1: Yes - G-1100; Switzerland INNS: No; REACH: Yes - 01-2119982985-14: Intermediate, (P)
		Mexico INSQ: No; Australia ICS: No; New Zealand IOC: No; China IECSC: No; Japan ENCS: No; Japan ISHL: No; Korea ECL: No; Philippines ICCS: No; Taiwan TCSCA: No; Singapore HSL: No; Israel HSL: No; Germany WHCS: No; Switzerland Gifftliste 1: No; Switzerland INNS: No; REACH: No

**Section 16. Other Information**

**Revision Date:** 03/07/2022

**Additional Information About This Product:** No data available.

**This Product:**

**Company Policy or**

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