

**1. Product and Company Identification**

**Product Name:** TH-83ci  
**Trade Name:** TH-83ci  
**Company Name:** Hitachi Industrial Equipment & Solutions America, LLC  
2730 Greenleaf Avenue **Phone Number:**  
Elk Grove Village, IL 60007 (866)583-0048

**Web site address:** <https://www.hitachi-iesa.com/industrial-marking-and-coding>  
**Emergency Contact:** Chemtrec (800)424-9300

**Information:** Christian Krzykwa (980)500-7144  
**Intended Use:** Printing Ink Related Material

**2. Hazards Identification**

**Flammable Liquids, Category 2**

**Acute Toxicity: Inhalation, Category 3**

**Acute Toxicity: Oral, Category 3**

**Acute Toxicity: Skin, Category 3**

**Serious Eye Damage/Eye Irritation, Category 2**

**Specific Target Organ Toxicity (single exposure), Category 1 - Nervous system, Kidneys.**



**GHS Signal Word:**

**Danger**

**GHS Hazard Phrases:**

H225 - Highly flammable liquid and vapor.  
H301+311 - Toxic if swallowed or in contact with skin.  
H319 - Causes serious eye irritation.  
H331 - Toxic if inhaled.  
H370 - Causes damage to organs - Nervous system, Kidneys.

**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.  
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.  
P235 - Keep cool.

**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.  
P311 - Call a POISON CENTER or doctor/physician.

P330 - Rinse mouth.  
P332+313 - If skin irritation occurs, get medical advice/attention.  
P337+313 - If eye irritation persists, get medical advice/attention.  
P361 - Remove/Take off immediately all contaminated clothing.  
P363 - Wash contaminated clothing before reuse.

**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 to a licensed waste disposal company in accordance with all applicable governmental and environmental regulations.

**Other Hazards:**

Causes mild skin irritation.

**3. Composition/Information on Ingredients**

CAS #	Hazardous Components (Chemical Name)	Concentration
78-93-3	Methyl ethyl ketone	50.0 -60.0 %
67-56-1	Methanol	40.0 -50.0 %
64-19-7	Acetic acid	< 5.0 %

**4. First Aid Measures**

**Emergency and First Aid Procedures:** No data available.

**5. Fire Fighting Measures**

**Flash Pt:** > -1.00 C (30.2 F) Method Used: Closed Cup  
**Explosive Limits:** LEL: No data. UEL: No data.  
**Autoignition Pt:** ~ 515.00 C (959.0 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
78-93-3	Methyl ethyl ketone	PEL: 200 ppm	TLV: 200 ppm STEL: 300 ppm	No data.
67-56-1	Methanol	PEL: 200 ppm	TLV: 200 ppm STEL: 250 ppm	No data.
64-19-7	Acetic acid	PEL: 10 ppm	TLV: 10 ppm STEL: 15 ppm	No data.

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

**Eye Protection:** No data available.

**Protective Gloves:** No data available.

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

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

## 9. Physical and Chemical Properties

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

**Appearance and Odor:** colorless.  
solvent odor.

**pH:** No data.

**Melting Point:** -98.00 C (-144.4 F) - 16.60 C (61.9 F)

**Boiling Point:** 64.70 C (148.5 F) - 118.00 C (244.4 F)

**Flash Pt:** > -1.00 C (30.2 F) Method Used: Closed Cup

**Evaporation Rate:** No data.

**Flammability (solid, gas):** No data available.

**Explosive Limits:** LEL: No data. UEL: No data.

**Vapor Pressure (vs. Air or mm Hg):** No data.

**Vapor Density (vs. Air = 1):** No data.

**Specific Gravity (Water = 1):** No data.

**Density:** ~ 0.7966 G/CM3

**Solubility in Water:** No data.

**Octanol/Water Partition Coefficient:** No data.

**Autoignition Pt:** ~ 515.00 C (959.0 F)

**Decomposition Temperature:** 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:** No data available.

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.
64-19-7	Acetic acid	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 related material.  
**DOT Hazard Class:** 3 FLAMMABLE LIQUID  
**UN/NA Number:** UN1210 **Packing Group:** II



### LAND TRANSPORT (Canadian TDG):

**TDG Shipping Name:** Printing ink related material.  
**UN Number:** 1210 **Packing Group:** II  
**Hazard Class:** 3 - FLAMMABLE LIQUID **TDG Classification:**

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

**ADR/RID Shipping Name:** Printing ink related material.

### AIR TRANSPORT (ICAO/IATA):

**ICAO/IATA Shipping Name:** Printing ink related material.  
**UN Number:** 1210 **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 5000 LB	No
67-56-1	Methanol	No	Yes 5000 LB	Yes (50%)
64-19-7	Acetic acid	No	Yes 5000 LB	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 checked="" type="checkbox"/> Yes <input 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 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 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) |  |

**California Proposition 65**



**WARNING**

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](http://www.P65Warnings.ca.gov).

**CAS # Hazardous Components (Chemical Name)**

78-93-3 Methyl ethyl ketone

67-56-1 Methanol

64-19-7 Acetic acid

**CAS # Hazardous Components (Chemical Name)**

78-93-3 Methyl ethyl ketone

67-56-1 Methanol

64-19-7 Acetic acid

**Other US EPA or State Lists**

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

TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; NC TAP: Yes: NC TAP

**International Regulatory Lists**

Canadian DSL: Yes; Canadian NDSL: No; 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

Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; Japan ENCS: Yes - 7-322; Japan ISHL: No; Israel HSL: Yes - Cat.; Germany WHCS: Yes - 145: WGK 1; Switzerland Giftliste 1: Yes - G-2063; Switzerland INNS: No; REACH: Yes - 01-2119433307-44: Full, (P); Rotterdam: No

Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; Japan ENCS: Yes - 9-1772; Japan ISHL: No; Israel HSL: No; Germany WHCS: Yes - 93: WGK 1; Switzerland Giftliste 1: Yes - G-4595; Switzerland INNS: No; REACH: Yes - 01-2119475328-30: Full, (P); Rotterdam: No

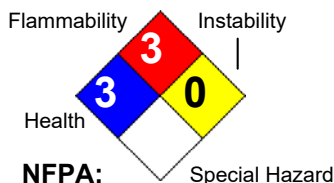
**16. Other Information**

**Revision Date:** 09/24/2020

**Hazard Rating System:**

<b>HEALTH</b>	<input type="checkbox"/>	<b>3</b>
<b>FLAMMABILITY</b>	<input type="checkbox"/>	<b>3</b>
<b>PHYSICAL</b>	<input type="checkbox"/>	<b>0</b>
<b>PPE</b>	<b>B</b>	

**HMIS:**



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

**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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