

## 1. Product and Company Identification

**Product Code:** TH-78B, S3078B  
**Product Name:** TH-78B, S3078B  
**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**  
**Serious Eye Damage/Eye Irritation, Category 2**  
**Germ Cell Mutagenicity, Category 1B**  
**Toxic To Reproduction, Category 1B**  
**Specific Target Organ Toxicity (single exposure), Category 3**  
**Specific Target Organ Toxicity (repeated exposure), Category 1**  
**Specific Target Organ Toxicity (repeated exposure), Category 2**

**Phone Number:**  
(866)583-0048



**GHS Signal Word:** **Danger**  
**GHS Hazard Phrases:** H225 - Highly flammable liquid and vapor.  
H319 - Causes serious eye irritation.  
H302 - Harmful if swallowed. H332 - Harmful if inhaled.  
H315 - Causes skin irritation.  
H372 - Causes damage to kidneys through prolonged or repeated exposure.  
H373 - May cause damage to central and peripheral nervous systems through prolonged or repeated exposure.

**GHS Precaution 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.  
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.  
P281 - Use personal protective equipment as required.

**GHS Response Phrases:** 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.  
P308+313 - IF exposed or concerned: Get medical attention/advice.  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
P314 - Get medical attention/advice if you feel unwell.  
P337+313 - If eye irritation persists, get medical advice/attention.  
**GHS Storage and Disposal Phrases:** P403+235 - Store in cool/well-ventilated place. P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

**Emergency Overview:**

**3. Composition/Information on Ingredients**

CAS #	Hazardous Components (Chemical Name)	Concentration
64-17-5	Ethyl alcohol	73.0 -92.0 %
67-64-1	Acetone	0.0 -8.0 %
1336-21-6	Ammonium hydroxide	0.0 -5.0 %

**4. First Aid Measures**

**Emergency and First Aid Procedures:**

**5. Fire Fighting Measures**

**Flash Pt:** 10.00 C (50.0 F) Method Used: TAG Closed Cup  
**Explosive Limits:** LEL: UEL:  
**Autoignition Pt:**  
**Suitable Extinguishing Media:**  
**Fire Fighting Instructions:**  
**Flammable Properties and Hazards:**  
**Hazardous Combustion Products:**

**6. Accidental Release Measures**

**Steps To Be Taken In Case Material Is Released Or Spilled:**

**7. Handling and Storage**

**Precautions To Be Taken in Handling:**

**8. Exposure Controls/Personal Protection**

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
64-17-5	Ethyl alcohol	PEL: 1000 ppm	TLV: 1000 ppm STEL: 1000 ppm	
67-64-1	Acetone	PEL: 1000 ppm	TLV: 250 ppm STEL: 500 ppm	
1336-21-6	Ammonium hydroxide			

Respiratory Equipment  
(Specify Type):  
Eye Protection:  
Protective Gloves:  
Other Protective Clothing:  
Engineering Controls  
(Ventilation etc.):

## 9. Physical and Chemical Properties

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid  
**Appearance and Odor:** Pink to orange.  
alcohol-like.  
**pH:**  
**Melting Point:** NA -94.00 - 137.00 C (278.6 F)  
**Boiling Point:** - 100.00 C (212.0 F)  
**Flash Pt:** 10.00 C (50.0 F) Method Used: TAG Closed Cup  
**Evaporation Rate:**  
**Flammability (solid, gas):**  
**Explosive Limits:** LEL: UEL:  
**Vapor Pressure (vs. Air or mm Hg):**  
**Vapor Density (vs. Air = 1):**  
**Specific Gravity (Water = 1):**  
**Density:** ~ 0.82 g/mL  
**Solubility in Water:**  
**Octanol/Water Partition Coefficient:**  
**Autoignition Pt:**  
**Decomposition Temperature:**  
**Viscosity:**

## 10. Stability and Reactivity

**Stability:** Unstable [ ] Stable [ X ]  
**Conditions To Avoid - Instability:**  
**Incompatibility - Materials To Avoid:**  
**Hazardous Decomposition or Byproducts:**  
**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]  
**Conditions To Avoid - Hazardous Reactions:**

## 11. Toxicological Information

**Toxicological Information:**

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.
1336-21-6	Ammonium hydroxide	n.a.	n.a.	n.a.	n.a.

## 12. Ecological Information

## 13. Disposal Considerations

**Waste Disposal Method:**

## 14. Transport Information

**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 **Packing Group:** III



**LAND TRANSPORT (Canadian TDG):**

**TDG Shipping Name:**

**UN Number:** 1210 **Packing Group:** III

**Hazard Class:** 3 - FLAMMABLE LIQUID **TDG Classification:**

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

**ICAO/IATA Shipping Name:** Ethyl alcohol solutions.

## 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 5000 LB	No
1336-21-6	Ammonium hydroxide	No	Yes 1000 LB	No

**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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Yes <input 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 checked="" type="checkbox"/> Yes <input 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)		

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
1336-21-6	Ammonium hydroxide	No	No	Yes
CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists		
64-17-5	Ethyl alcohol	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; NC TAP: No		
67-64-1	Acetone	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; NC TAP: No		
1336-21-6	Ammonium hydroxide	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; NC TAP: No		
CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists		
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		
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		
1336-21-6	Ammonium hydroxide	Mexico INSQ: Yes - 2672; Australia ICS: Yes; New Zealand IOC: Yes; Japan ENCS: Yes - 1-314; Japan ISHL: No; Israel HSL: No; Germany WHCS: Yes - 211: WGK 2; Switzerland Giftliste 1: Yes - G-1100; Switzerland INNS: No; REACH: Yes - 01-2119982985-14: Intermediate, (P); Rotterdam: No		

**Canadian WHMIS Classification:**

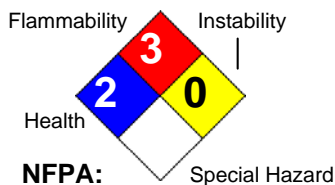
**16. Other Information**

**Revision Date:** 08/21/2018

**Hazard Rating System:**

<b>HEALTH</b>		<b>2</b>
<b>FLAMMABILITY</b>		<b>3</b>
<b>PHYSICAL</b>		<b>0</b>
<b>PPE</b>		<b>B</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:**

Christian Krzykwa

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