

1. Product and Company Identification

Product Code: TH-421CI
Product Name: TH-421ci; S1421ci TH-421ci
Trade Name:
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
Acute Toxicity: Oral, Category 5
Acute Toxicity: Inhalation, Category 5
Skin Corrosion/Irritation, Category 2
Specific Target Organ Toxicity (single exposure), Category 1
Specific Target Organ Toxicity (single exposure), Category 2
Specific Target Organ Toxicity (single exposure), Category 3
Aspiration Toxicity, Category 2



GHS Signal Word: **Danger**

GHS Hazard Phrases: H225 - Highly flammable liquid and vapor.
 H303 - May be harmful if swallowed.
 H305 - May be harmful if swallowed and enters airways.
 H315 - Causes skin irritation.
 H319 - Causes serious eye irritation.
 H333 - May be harmful if inhaled.
 H335 - May cause respiratory irritation.
 H370 - Causes damage to nervous system
 H371 - May cause damage to organs .

GHS Precaution Phrases: P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P233 - Keep container tightly closed.
 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

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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.

P321 - Specific treatment see on this label.

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.

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.

GHS Storage and Disposal Phrases:

Emergency Overview:

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
78-93-3	2-Butanone	90.0 -100.0 %

4. First Aid Measures

Emergency and First Aid Procedures:

5. Fire Fighting Measures

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

Explosive Limits: LEL: 1.8 %(V) UEL: 10.1 %(V)

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
78-93-3	2-Butanone	PEL: 200 ppm	TLV: 200 ppm STEL: 300 ppm	

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: Black.
Pungent odor.
pH: NA
Melting Point: -86.99 C (-124.6 F)
Boiling Point: 80.00 C (176.0 F)
Flash Pt: -2.99 C (26.6 F) Method Used: Closed Cup
Evaporation Rate: NA
Flammability (solid, gas):
Explosive Limits: LEL: 1.8 %(V) UEL: 10.1 %(V)
Vapor Pressure (vs. Air or mm Hg): 95 HPA at 20.0 C (68.0 F)
Vapor Density (vs. Air = 1): 2.49 - (Air=1.0)
Specific Gravity (Water = 1):
Density: 0.805 g/mL
Solubility in Water: NANo data
Octanol/Water Partition Coefficient: 0.29
Autoignition Pt:
Decomposition Temperature:
Viscosity: NA

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:

Carcinogenicity:	NTP? No	IARC Monographs? No	OSHA Regulated? No		
CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
78-93-3	2-Butanone	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 related material.
DOT Hazard Class: 3 FLAMMABLE LIQUID
UN/NA Number: UN1210 **Packing Group:** II



LAND TRANSPORT (Canadian TDG):

TDG Shipping Name:
UN Number: 1210 **Packing Group:** II
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	2-Butanone	No	Yes 5000 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 checked="" type="checkbox"/> Yes <input 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 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 checked="" type="checkbox"/> Yes <input 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
78-93-3	2-Butanone	Yes: Part 5	No	Yes

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
78-93-3	2-Butanone	TSCA: Yes - Inventory; CA PROP.65: No; 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	2-Butanone	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

Giffliste 1: Yes - G-2429; Switzerland INNS: No; REACH: Yes
- 01-2119457290-43: Full, (P)

Canadian WHMIS Classification:

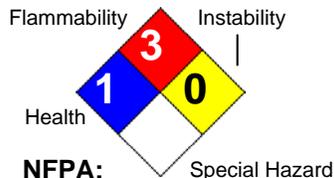
16. Other Information

Revision Date: 08/22/2018

Hazard Rating System:

HEALTH	*	1
FLAMMABILITY		3
PHYSICAL		0
PPE		B

HMIS:



NFPA:

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:
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