

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
 75 NW Point Blvd Suite D, **Phone Number:**
 Elk Grove Village, IL 60007 (800)627-5464
Web site address: <https://mc.hitachi-iesa.com>
Emergency Contact: Chemtrec (800)424-9300
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

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:

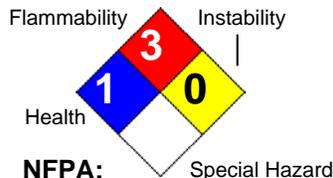
16. Other Information

Revision Date: 08/22/2018

Hazard Rating System:

| | | |
|--------------|---|---|
| HEALTH | * | 1 |
| FLAMMABILITY | | 3 |
| PHYSICAL | | 0 |
| PPE | | B |

HMIS:

Additional Information About
This Product:Company Policy or
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