

This SDS complies with the US OSHA HCS 2024.

### 1. Product and Company Identification

**Product Name:** 3430E  
**Company Name:** Hitachi Industrial Equipment & Solutions America, LLC  
 75 NW Point Blvd  
 Suite D  
 Elk Grove Village, IL 60007  
**Phone Number:** (800)627-5464  
**Web site address:** <https://www.mc.hitachi-iesa.com>  
**Emergency Contact:** Chemtrec (800)424-9300

**Intended Use:** Printing ink for industrial inkjet printers.

### 2. Hazards Identification

**Flammable Liquids, Category 2**  
**Serious Eye Damage/Eye Irritation, Category 2**  
**Specific Target Organ Toxicity (single exposure), Category 3**



**GHS Signal Word:** **Danger**  
**GHS Hazard Phrases:** H225 - Highly flammable liquid and vapor.  
 H319 - Causes serious eye irritation.  
 H336 - May cause drowsiness or dizziness.  
**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/printing 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.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P235 - Keep cool.  
 P270 - Do not eat, drink or smoke when using this product.  
 P273 - Avoid release to the environment.  
**GHS Response Phrases:** P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P302+352 - IF ON SKIN: Wash with plenty of soap and water.  
 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.  
 P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+313 - If eye irritation persists, get medical advice/attention.  
 P332+313 - If skin irritation occurs, get medical advice/attention.  
 P370+378 - In case of fire, use water spray, dry chemical, carbon dioxide, or alcohol resistant foam to extinguish.

<b>GHS Storage and Disposal Phrases:</b>	P403+233 - Store container tightly closed in well-ventilated place. P501 - Dispose of contents/container in accordance with local regulations.
<b>Potential Health Effects (Acute and Chronic):</b>	Hazards not otherwise classified (HNOC) or not covered by GHS -none. Hazards not otherwise classified (HNOC) or not covered by GHS.  Repeated exposure may cause skin dryness or cracking.
<b>Inhalation:</b>	Inhalation of vapors may cause drowsiness and dizziness. May cause central nervous system effects such as nausea and headache. May cause respiratory irritation.
<b>Skin Contact:</b>	Repeated exposure may cause skin dryness or cracking. May be absorbed through the skin in harmful amounts.
<b>Eye Contact:</b>	Causes serious eye irritation. Vapors may cause eye irritation.
<b>Ingestion:</b>	May cause irritation of the digestive tract.

### 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
64-17-5	Ethyl alcohol	50.0 -60.0 %
67-64-1	Acetone	20.0 -30.0 %
9004-57-3	Cellulose, Ethyl ether	< 5.0 %
3844-45-9	C.I. Acid Blue 9, Disodium salt	< 5.0 %

### 4. First Aid Measures

<b>Emergency and First Aid Procedures:</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
<b>In Case of Inhalation:</b>	If breathed in, move person into fresh air. If not breathing give artificial respiration. Remove victim to fresh air. If breathing is difficult, give oxygen. If experiencing respiratory symptoms call a POISON CENTER or doctor/physician. Consult a physician.
<b>In Case of Skin Contact:</b>	Wash off with soap and plenty of water. Consult a physician. Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical aid if irritation develops and persists.
<b>In Case of Eye Contact:</b>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If eye irritation persists, get medical advice/attention. Get medical aid.
<b>In Case of Ingestion:</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician. Wash out mouth with water provided person is conscious. If vomiting occurs naturally, have victim lean forward.
<b>Signs and Symptoms Of Exposure:</b>	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
<b>Indication of any immediate medical attention and special treatment needed:</b>	No data available.
<b>Note to Physician:</b>	Treat symptomatically and supportively.

### 5. Fire Fighting Measures

<b>Flash Point:</b>	~ -20.00 C (-4.0 F) Method Used: TAG Closed Cup
<b>Explosive Limits:</b>	LEL: No data. UEL: No data.
<b>Autoignition Pt:</b>	ND
<b>Suitable Extinguishing Media:</b>	Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.
<b>Unsuitable Extinguishing Media:</b>	Do not use water jet.
<b>Fire Fighting Instructions:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Extremely flammable liquid and vapor. Vapor may cause flash fire. Vapor may travel considerable distance to source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas.
<b>Flammable Properties and Hazards:</b>	Flash back possible over considerable distance. Vapors may travel to source of ignition and flash back. Container explosion may occur under fire conditions.
<b>Hazardous Combustion Products:</b>	Carbon oxides.

### 6. Accidental Release Measures

<b>Protective Precautions, Protective Equipment and Emergency Procedures:</b>	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours can accumulate in low areas. For personal protection see section 8. Evacuate personnel to safe areas.
<b>Environmental Precautions:</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use nonsparking tools. 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).

### 7. Handling and Storage

<b>Precautions To Be Taken in Handling:</b>	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. Ground and bond containers when transferring material. Use only with adequate ventilation. Wash thoroughly after handling.
<b>Precautions To Be Taken in Storing:</b>	Keep container tightly closed in a cool, dry, and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class 510) Keep away from heat, sparks and flame. Store away from incompatible material.
<b>Other Precautions:</b>	Apart from the uses mentioned in section 1 no other specific uses are stipulated.

### 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	No data.
67-64-1	Acetone	PEL: 1000 ppm	TLV: 250 ppm STEL: 500 ppm	No data.
9004-57-3	Cellulose, Ethyl ether	No data.	No data.	No data.
3844-45-9	C.I. Acid Blue 9, Disodium salt	No data.	No data.	No data.

**Personal Protective  
Equipment Symbols:**

**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). Respiratory:

**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.

**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: butyl-rubber Minimum layer thickness: 0.3 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.

**Other Protective Clothing:**

Wear appropriate protective clothing to prevent skin exposure. 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.

**Engineering Controls  
(Ventilation etc.):**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Ventilation fans and other electrical service must be non-sparking and have an explosion-proof design.

**Work/Hygienic/Maintenance  
Practices:**

Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

**Environmental Exposure  
Controls:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 9. Physical and Chemical Properties

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

**Appearance and Odor:** Blue.  
solvent odor.  
Odor Threshold: Not Determined

**pH:** No data.

**Melting Point:** ND

**Boiling Point:** ND

**Flash Point:** ~ -20.00 C (-4.0 F) TAG Closed Cup

**Evaporation Rate:** No data.

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

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

**Vapor Pressure:** No data.

**Vapor Density (vs. Air=1):** No data.  
**Specific Gravity (Water=1):** No data.  
**Solubility in Water:** No data.  
**Saturated Vapor Concentration:** No data.  
**Octanol/Water Partition Coefficient:** No data.  
  
**Autoignition Pt:** ND  
**Decomposition Temperature:** ND  
**Viscosity:** No data.

**Explosive Properties:** No data available.  
**Information on other hazards:** No data available.

### 10. Stability and Reactivity

**Reactivity:** No data available.  
**Stability:** Unstable [ ] Stable [ X ]  
**Conditions To Avoid - Instability:** Heat, flames and sparks. Exposure to moisture. Ignition sources.  
**Incompatibility - Materials To Avoid:** Oxidizing agents, Acetone reacts violently with phosphorous oxychloride.  
**Hazardous Decomposition or Byproducts:** In the event of fire: see section 5.  
**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]  
**Conditions To Avoid - Hazardous Reactions:** No data available.

**11. Toxicological Information**

**Toxicological Information:** Acute toxicity.  
No data available. Inhalation: Dermal. Germ cell mutagenicity: Reproductive toxicity.  
Aspiration hazard: Behavioral: Tremor. Behavioral: Headache. Ingestion may cause gastrointestinal irritation. Nausea, Vomiting, Diarrhea.

CAS# 64-17-5:

1. Acute toxicity, TDLo, Oral, Human, 3371. UL/KG.

Result:

Behavioral: Altered sleep time (including change in righting reflex).

Behavioral: Excitement.

Behavioral: Coma.

- Veterinary and Human Toxicology., American College of Veterinary and Comparative Toxicology, Publication Office, Comparative Toxicology, Manhattan, KS 66506, Vol/p/yr: 21,272, 1979

2. Acute toxicity, TDLo, Oral, Human, 700.0 MG/KG.

Result:

Behavioral: Changes in psychophysiological tests.

- Neurobehavioral Toxicology and Teratology., For publisher information, see NETEEC, Fayetteville, NY, Vol/p/yr: 8,77, 1986

CAS# 67-64-1:

1. Acute toxicity, TDLo, Oral, Human, 2857. MG/KG.

Result:

Behavioral: Coma.

Kidney, Ureter, Bladder: Other changes.

- "Toxicology of Drugs and Chemicals", Deichmann, W.B., Academic Press, Inc., New York, Vol/p/yr: -,64, 1969

2. Standard Draize Test, Eyes, Human, 500.0 PPM.

Result:

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria.

Gastrointestinal: Tumors.

Liver: Tumors.

- Journal of Industrial Hygiene and Toxicology, Vol/p/yr: 25,282, 1943

3. Standard Draize Test, Skin, Species: Rabbit, 500.0 MG, 24 H.

Result:

Gastrointestinal: Gastritis.

Liver: Hepatitis (hepatocellular necrosis), diffuse.

Kidney, Ureter, Bladder: Interstitial nephritis.

- Prehled Prumyslove Toxikologie, Marhold, J., Organické Latky, Prague Czechoslovakia, Vol/p/yr: -,280, 1986

4. Standard Draize Test, Eyes, Human, 186300. ppm, Mild.

Result:

Gastrointestinal: Alteration in gastric secretion.

Gastrointestinal: Other changes.

- CRC Critical Reviews in Toxicology., CRC Press, Inc., 2000 Corporate Blvd., NW, Boca Raton, FL 33421, Vol/p/yr: 32,43, 2002

<b>Irritation or Corrosion:</b>	<p>Skin corrosion/irritation. No data available. Skin. Rabbit. Result: Mild skin irritation -24 h. Serious eye damage/eye irritation: Eyes. Result: Eye irritation - 24 h.</p>
<b>Sensitization:</b>	<p>No data available. Species: Guinea pig. Result: Does not cause skin sensitisation.</p>
<b>Chronic Toxicological Effects:</b>	<p>No data available. Specific target organ toxicity -repeated exposure: no data available. Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.</p>
<b>Carcinogenicity/Other Information:</b>	<p>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.</p>

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.
9004-57-3	Cellulose, Ethyl ether	n.a.	n.a.	n.a.	n.a.
3844-45-9	C.I. Acid Blue 9, Disodium salt	n.a.	3	n.a.	n.a.

### 12. Ecological Information

<b>General Ecological Information:</b>	<p>No data available.  Toxicity to algae: Remarks: no data available.</p>
<b>Results of PBT and vPvB assessment:</b>	<p>PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.</p>
<b>Persistence and Degradability:</b>	<p>No data available. Biodegradability: Result: 91 % Readily biodegradable. (OECD Test Guideline 301B)</p>
<b>Bioaccumulative Potential:</b>	<p>No data available. Does not bioaccumulate.</p>
<b>Mobility in Soil:</b>	<p>No data available.</p>
<b>Other adverse effects:</b>	<p>No data available.</p>

### 13. Disposal Considerations

<b>Waste Disposal Method:</b>	<p>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. Observe all federal, state, and local environmental regulations. Contaminated packaging: Dispose of as unused product.</p>
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### 14. Transport Information

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Printing ink.  
**DOT Hazard Class:** 3 FLAMMABLE LIQUID  
**UN/NA Number:** UN1210 **Packing Group:** II


**LAND TRANSPORT (Canadian TDG):**

**TDG Shipping Name:** Printing ink.  
**UN Number:** UN1210 **Packing Group:** II  
**Hazard Class:** 3 - FLAMMABLE LIQUID **TDG Classification:**

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

**ADR/RID Shipping Name:** Printing ink.  
**UN Number:** UN1210 **Packing Group:** II  
**Hazard Class:** 3 - FLAMMABLE LIQUID

**MARINE TRANSPORT (IMDG/IMO):**

**IMDG/IMO Shipping Name:** Printing ink.  
**UN Number:** UN1210 **Packing Group:** II  
**Hazard Class:** 3 - FLAMMABLE LIQUID  
**IMDG MFAG Number:**  
**Marine Pollutant:** Yes

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

**ICAO/IATA Shipping Name:** Printing ink.  
**UN Number:** UN1210 **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)
64-17-5	Ethyl alcohol	No	No	No
67-64-1	Acetone	No	Yes 5000 LB	No
9004-57-3	Cellulose, Ethyl ether	No	No	No
3844-45-9	C.I. Acid Blue 9, Disodium salt	No	No	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 checked="" type="checkbox"/> Yes <input 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 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)		

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
64-17-5	Ethyl alcohol	TSCA: Inventory CA TAC, Title 8: Title 8
67-64-1	Acetone	TSCA: Inventory CA TAC, Title 8: Title 8
9004-57-3	Cellulose, Ethyl ether	TSCA: Inventory
3844-45-9	C.I. Acid Blue 9, Disodium salt	TSCA: Inventory CA TAC, Title 8: Title 8
CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
64-17-5	Ethyl alcohol	Japan ENCS: 5-153 Israel HSL: Cat. Germany WHCS: 96: WGK 1 Switzerland Giftliste 1: G-1158 REACH: (P), 01-2119457610-43: Full
67-64-1	Acetone	Japan ENCS: 2-542 Germany WHCS: 6: WGK 1 Switzerland Giftliste 1: G-1031 REACH: (P), 01-2119471330-49: Full
9004-57-3	Cellulose, Ethyl ether	Japan ENCS: 8-186 Germany WHCS: 5291: WGK 1 Switzerland Giftliste 1: G-8375 REACH: (P)
3844-45-9	C.I. Acid Blue 9, Disodium salt	Japan ENCS: 5-3308 REACH: (P), 01-2120740569-45: Full

**Regulatory Information:** 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  
 (980) 500-7144.

### 16. Other Information

**Revision Date:** 08/04/2025      **Previous revision:** 10/14/2024

**Additional Information About This Product:** 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.

**Company Policy or Disclaimer:**

Revision: 08/04/2025

Supersedes Revision: 10/14/2024