

Revision: 02/28/2023 Supersedes Revision: 03/10/2022

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2020/878 and US OSHA HCS 2015

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifiers: Product Name:

JP-E410, 2410E

- 1.2 Relevant identified uses of the substance or mixture and uses advised against: Relevant identified uses: Printing ink
- 1.3 Details of the Supplier of the Safety Data Sheet:
 - Company Name:
 Hitachi Industrial Equipment & Solutions America,

 LLC
 Phone Number:

 2730 Greenleaf Avenue
 (866)583-0048

 Elk Grove Village, IL 60007
 United States of America

 Web site address:
 https://www.hitachi-iesa.com/industrial-markin

 g-and-coding
 (980)500-7144

 Information:
 Christian Krzykwa

 Emergency telephone number:
 United States of America

1.4 Emergency telephone number: Emergency Contact: Chemtrec

(800)424-9300

Section 2. Hazards Identification

- 2.1 Classification of the Substance or Mixture: Flammable Liquids, Category 2 Serious Eye Damage/Eye Irritation, Category 2 Specific Target Organ Toxicity (single exposure), Category 3
- 2.2 Label Elements:



GHS Signal Word: Danger

Hazard-determining components of labelling:

Acetone

GHS Hazard Phrases:

- H225 Highly flammable liquid and vapor.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

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.
- 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.

GHS Response Phrases:



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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.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P337+313 - If eye irritation persists, get medical advice/attention.

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 in accordance with local regulations.

UFI:

2.3 Adverse Human Health Hazards not otherwise classified (HNOC) or not covered by GHS -none. Hazards not Effects and Symptoms: otherwise classified (HNOC) or not covered by GHS.

Repeated exposure may cause skin dryness or cracking.

- 2.3.1 Inhalation: Causes respiratory tract irritation. Vapors may cause dizziness or suffocation.
- 2.3.2 Skin Contact: May cause skin irritation.
- **2.3.3 Eye Contact:** Causes serious eye irritation.
- 2.3.4 Ingestion: Harmful if swallowed.

Section 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
64-17-5	Ethyl alcohol 01-2119457610-43	50.0 -60.0 %	200-578-6 603-002-00-5	Flam. Liq. 2: H225
67-64-1	Acetone 01-2119471330-49	20.0 -30.0 %	200-662-2 606-001-00-8	Flam. Liq. 2: H225 Eye Damage 2: H319 STOT (SE) 3: H336 EUH066

Section 4. First Aid Measures

4.1 Description of First AidConsult a physician. Show this safety data sheet to the doctor in attendance. Move out of Measures: dangerous area.

In Case of Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention. If experiencing respiratory symptoms call a POISON CENTER or doctor/physician. Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. Remove contaminated clothing. Wash skin with soap and water. Get medical attention. Keep victim under observation.
In Case of Skin	Wash with soap and water. Get medical attention if irritation develops or persists.
Contact:	Remove contaminated clothing and shoes.
In Case of Eye	Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.
Contact:	Remove contact lenses, if present and easy to do. Continue rinsing.
In Case of Ingestion:	Wash out mouth with water provided person is conscious. Remove person to fresh air



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and keep comfortable for breathing. If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately. If vomiting occurs naturally, have victim lean forward. Never give anything by mouth to an unconscious person.

- 4.2 Important Symptoms and Effects, Both and Effects, Both Acute and Delayed:
 The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- 4.3 Indication of any No data available. immediate medical attention and special treatment needed:

Section 5. Fire Fighting Measures

- 5.1 Suitable Extinguishing In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.Media:
 - Unsuitable Do NOT use straight streams of water.

Extinguishing Media:

5.2 Flammable Properties No data available.

and Hazards:

5.3

Hazardous CombustionCarbon oxides, Nitrogen oxides, Hazardous decomposition products formed under fire conditions.

Flash Pt:	> -17.00 C (1.4 F) Method Used: TAG Closed Cup
Explosive Limits:	LEL: No data. UEL: No data.
Autoignition Pt:	No data.
Fire Fighting	As in any fire, wear a self-contained breathing apparatus in pressure-demand,
Instructions:	MSHA/NIOSH (approved or equivalent), and full protective gear. Protective Equipment:
	Wear self-contained breathing apparatus and protective clothing to prevent contact with

skin and eyes.

Section 6. Accidental Release Measures

6.1 Protective Precautions, Wear appropriate protective eyeglasses or chemical safety goggles as described by Protective Equipment OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure and Emergency adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to **Procedures:** form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8. Evacuate personnel to safe areas. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. 6.2 Environmental Discharge into the environment must be avoided. Precautions: 6.3 **Methods and Material** Stop leak if you can do it without risk. Use clean non-sparking tools to collect material and place it into loosely covered plastic containers for later disposal. Prevent entry into For Containment and waterways, sewers, basements or confined areas. Cover with dry-lime, sand, or soda **Cleaning Up:** ash. Evacuate personnel to safe areas. 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).



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		Section 7. Handling and Storage
7.1	Precautions To Be Taken in Handling:	Avoid prolonged or repeated exposure. Avoid release to the environment. Avoid use in confined spaces. Use explosion-proof electrical/ventilating/lighting//equipment other specified by the manufacturer/supplier or the competent authority. Use spark-proof tools and explosion proof equipment. Avoid contact with skin and eyes. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2. Wash thoroughly after handling. Avoid inhalation of vapor or mist. Avoid generating dusty conditions.
7.2	Precautions To Be Taken in Storing:	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. Store container tightly closed in a cool and well-ventilated place. Store away from heat and direct sunlight. Store away from combustibles/other incompatible materials specified by the manufacturer/supplier or the competent authority. Store away from sparks, flames. Store protected from moisture.
		An art from the uses mentioned in cestion 4 no other exciting uses are stimulated

Other Precautions: Apart from the uses mentioned in section 1 no other specific uses are stipulated.

Section 8. Exposure Controls/Personal Protection

8.1 Ex	xposure Parameters:			
CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
64-17-5	Ethyl alcohol	ACGIH TLV	TLV: 1000 ppm STEL: 1000 ppm	
		France VL	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm)	
		OSHA PELs	PEL: 1000 ppm	
		Britain EH40	TWA: 1920 mg/m3 (1000 ppm) STEL: ()	
67-64-1	Acetone	ACGIH TLV	TLV: 250 ppm STEL: 500 ppm	
		Europe	TWA: 1210 mg/m3 (500 ppm)	
		France VL	TWA: 1210 mg/m3 (500 ppm) STEL: 2420 mg/m3 (1000 ppm)	
		OSHA PELs	PEL: 1000 ppm	
		Britain EH40	TWA: 1210 mg/m3 (500 ppm) STEL: 3620 mg/m3 (1500 ppm)	

8.2 Exposure Controls:

8.2.1 Engineering Controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.



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8.2.2	Personal protection ed	quipment:
	Personal Protective Equipment Symbols:	
	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).
	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:	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.
	Respiratory Equipmen	t Where risk assessment shows air-purifying respirators are appropriate use a full-face
	(Specify Type):	respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.
	Fasimental	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:
8.2.3	Environmental	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
	Exposure Controls: Exposure Scenarios:	No data available.
	Se	ction 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States:	[]Gas [X]Liquid []Solid
Appearance and Odor:	Reddish.
	alcohol-like.
pH:	No data.
Melting Point:	-114.10 C (-173.4 F)88.88 C (-128.0 F)
Boiling Point:	38.00 C (100.4 F)100.00 C (-148.0 F)
Flash Pt:	> -17.00 C (1.4 F) Method Used: TAG Closed Cup
Evaporation Rate:	1.9
Saturated Vapor	No data.
Concentration:	
Flammability (solid, gas):	No data available.
Explosive Limits:	LEL: No data. UEL: No data.
Vapor Pressure (vs. Air or	No data.
mm Hg):	
	No data.



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Vapor Density (vs. Air = 1):	No data.
Specific Gravity (Water = 1):	No data.
Solubility in Water:	No data.
Octanol/Water Partition	No data.
Coefficient:	
Autoignition Pt:	No data.
Decomposition	No data.
Temperature:	
Viscosity:	No data.
Explosive Properties:	No data available.
Oxidizing Properties:	No data available.
• · · • ·	

9.2 Other Information

9.2.1 Information with regard to physical hazard classes Information with regard to primary physical hazard:

9.2.2 Other safety characteristics

		Section 10. Stability and Reactivity					
10.1	Reactivity:	No data available.					
10.2	Stability:	Unstable [] Stable [X]					
10.3	Conditions To Avoid -	No data available. Vapors may form explosive mixture with air.					
	Hazardous Reactions:						
	Possibility of	Will occur [] Will not occur [X]					
	Hazardous Reactions:						
10.4	Conditions To Avoid - Instability:	Heat, flames and sparks.					
10.5	Incompatibility - Materials To Avoid:	Bases, Oxidizing agents, Reducing agents, Acetone reacts violently with phosphorous oxychloride.					
10.6	Hazardous	No data available. In the event of fire: see section 5. Hazardous decomposition products					
10.0	Decomposition or	formed under fire conditionsCarbon oxides.					
	Byproducts:						
	31	Section 11 Toxicological Information					
		Section 11. Toxicological Information					
11.1	Information on	Acute toxicity.					
	Toxicological Effects:	No data available. Inhalation: Dermal. Germ cell mutagenicity: Reproductive toxicity. Aspiration hazard: Behavioral: Tremor. Behavioral: Headache. Ingestion may cause gastrointestinal irritation. Nausea, Vomiting, Diarrhea.					
	Irritation or Corrosion:	Skin corrosion/irritation. No data available. Skin. Rabbit.					
		Result: Mild skin irritation -24 h.					
		Eyes.					
	Sensitization:	No data available. Species: Guinea pig.					
		Result: Does not cause skin sensitisation.					
		Specific target organ toxicity -single exposure (Globally Harmonized System) No data					
	Effects:	available.					
		Specific target organ toxicity -repeated exposure: no data available. Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.					
	Carcinogenicity/Other	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.					

Multi-region format

HITACHI
Inspire the Next

SAFETY DATA SHEET F410 2410F

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mspire the Next		Revision: 02/28/2023 Supersedes Revision: 03/10/2023						
Information:		NTP: No compone identified as a know OSHA: No compor identified as a carc component that is NTP, or EPA class	wn or anticipated nent of this produ inogen or potenti not classifiable as	carcinogen l ct present at al carcinoge	evels greater by NTP. levels greate n by OSHA.	than or equal er than or equa This product is	to 0.1% is al to 0.1% is s or contains a	
CAS	#	Hazardous Com	ponents (Chemical N	lame)	NTP	IARC	ACGIH	OSHA
64	-17-5	Ethyl alcohol		·	n.a.	1	Unknown	n.a.
67	-64-1	Acetone			n.a.	n.a.	Unknown	n.a.
			Section 12	. Ecological	Informa	tion		
12.1	Toxicity	:	No data available.					
			Toxicity to algae: F	Remarks: no data	available.			
12.2	Persiste Degrada		No data available. Guideline 301B	Biodegradability:	Result: 91 %	6 Readily bio	degradable. (C	DECD Test
12.3	Bioaccu Potentia	ımulative al:	No data available.	Does not bioaccu	umulate.			
12.4	Mobility	in Soil:	No data available.					
12.5	Results	of PBT and	PBT/vPvB assessr	ment not available	e as chemica	al safety asse	essment not re	quired/not
	vPvB as	sessment:	conducted.					
12.6	Other ad	dverse effects:	No data available.					
			Section 13.	Disposal Co	onsidera	tions		
13.1	Waste D Method:	-	Product: Burn in a chemical care in igniting as t solutions to a licen- disposal service to	incinerator equip his material is hig sed disposal com dispose of this m	oped with an ghly flammat opany. Conta naterial.	afterburner a ble. Offer sur ict a licensed	plus and non-r	ecyclable
13.1		-	Product: Burn in a chemical care in igniting as t solutions to a licen- disposal service to Contaminated pact	incinerator equip his material is hig sed disposal com dispose of this m kaging: Dispose o	oped with an ghly flammat npany. Conta naterial. of as unused	afterburner a ble. Offer sur ict a licensed product.	plus and non-r	ecyclable
	Method:	- -	Product: Burn in a chemical care in igniting as t solutions to a licen- disposal service to Contaminated pack Section 14	incinerator equip his material is hig sed disposal com dispose of this m	oped with an ghly flammat npany. Conta naterial. of as unused	afterburner a ble. Offer sur ict a licensed product.	plus and non-r	ecyclable
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14.2 MARI	NE TRANSPORT (IM	DG/IMO):			
IMDG/IM	O Shipping Name:	Printing ink.			
UN Num	ber:	UN1210	Packi	ng Group:	П
Hazard Class:		3 - FLAMMABLE LIQUID		5	
	RANSPORT (ICAO/I				
	•				
	TA Shipping Name:	•	rinting ink.		
UN Num		UN1210	Packi	ng Group:	II
Hazard C	Class:	3 - FLAMMABLE LIQU	JID		
		Section 15. Reg	ulatory Inf	ormation	
EPA SARA (Superfund Amendment	s and Reauthorization Ac	t of 1986) Lists:		
CAS #	Hazardous Compor	ents (Chemical Name)	S. 302 (EH	S) S. 304 RQ	S. 313 (TRI)
64-17-5	Ethyl alcohol		No	No	No
67-64-1	Acetone		No	Yes NA	No
	Explosive	zard Categories' define		Acute toxicity (any ro	
[] Yes [X] No [X] Yes [] No	•	als liquid or solid)		• • •	. ,
[] Yes [X] No			[] Yes [X] No Skin Corrosion or Irritation [X] Yes [] No Serious eye damage or eye irritation		
[] Yes [X] No		13)	[] Yes [X] No Respiratory or Skin Sensitization		
[] Yes [X] No			[] Yes [X] No Germ cell mutagenicity		
[] Yes [X] No			[] Yes [X] No	-	,
[] Yes [X] No			[] Yes [X] No		/
[] Yes [X] No	-		[X] Yes [] No		n toxicity (single or repeated exposure)
[]Yes [X] No			[]Yes [X] No	Aspiration Hazard	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
[]Yes [X] No		pressed gas)	[]Yes [X] No	Simple Asphyxiant	
[] Yes [X] No			[]Yes [X] No		Otherwise Classified (HNOC)
[] Yes [X] No	Combustible Dust				
[] Yes [X] No	(Physical) Hazard Not Oth	erwise Classified (HNOC)			
CAS #	Hazardous Compor	ents (Chemical Name)	Other US E	PA or State Lists	International Regulatory Lists
64-17-5	Ethyl alcohol		TSCA: Inve	ntory	Japan ENCS: 5-153
			CA TAC, Ti	tle 8: Title 8	Israel HSL: Cat.
					Germany WHCS: 96: WGK 1
					Switzerland Giftliste 1: G-1158
					REACH: 01-2119457610-43:
					Full, (P)
67-64-1	Acetone		TSCA: Inve	ntory	Japan ENCS: 2-542
0.011				tle 8: Title 8	Germany WHCS: 6: WGK 1
			e, , , , , , , , , , , , , , , , , , ,		Switzerland Giftliste 1: G-1031
					REACH: 01-2119471330-49:
					Full, (P)
					, (.)



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Section 16. Other Information 02/28/2023 **Revision Date:** Flammability Instability Hazard Rating System: 2 HEALTH FLAMMABILITY 3 PHYSICAL 0 Health PPE в HMIS: NFPA: Special Hazard Additional Information About To the best of our knowledge, the information contained herein is accurate. However,

Additional Information AboutTo the best of our knowledge, the information contained herein is accurate. However,This Product: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