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

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

 1.1
 Product Code:
 N100354

 Product Name:
 JP-K77

 X Code:
 X(22,53)0354

1.2 Relevant identified uses of the substance or mixture and uses advised against:

1.3 Details of the Supplier of the Safety Data Sheet:

Company Name:	Hitachi Industrial Equipment & Solutions America, LLC		
	2730 Greenleaf Avenue	Phone Number:	
	Elk Grove Village, IL 60007	(866)583-0048	
Information:	Christian Krzykwa	(980)500-7144	

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 2A Specific Target Organ Toxicity (single exposure), Category 3 Aquatic Toxicity (Acute), Category 3 Aquatic Toxicity (Chronic), Category 3 Skin Corrosion/Irritation, Category 2 Acute Toxicity: Skin, Category 4 Acute Toxicity: Inhalation, Category 4
- 2.2 Label Elements:



GHS Signal Word: Danger

Hazard-determining components of labelling:

Acetone

Propyl acetate

GHS Hazard Phrases:

H225 - Highly flammable liquid and vapor.

H312 - Harmful in contact with skin.

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- H402 Harmful to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

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.



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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.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P235 - Keep cool.

GHS Response Phrases:

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.

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

P321 - Specific treatment see ... on this label.

P332+313 - If skin irritation occurs, get medical advice/attention.

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

P362+364 - Take off contaminated clothing and wash it before reuse.

P370+378 - In case of fire, use ... to extinguish.

GHS Storage and Disposal Phrases:

P403+233 - Store container tightly closed in well-ventilated place.

P405 - Store locked up.

P501 - Dispose of contents/container to ...

UFI:

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

Section 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
67-64-1	Acetone 01-2119471330-49	70.0 -95.0 %	200-662-2 606-001-00-8	Flam. Liq. 2: H225 Eye Damage 2: H319 STOT (SE) 3: H336 EUH066
64-17-5	Ethyl alcohol 01-2119457610-43	4.765 -14.295 %	200-578-6 603-002-00-5	Flam. Liq. 2: H225
109-60-4	Propyl acetate 01-2119484620-39	0.1 -1.0 %	203-686-1 607-024-00-6	Flam. Liq. 2: H225 Eye Damage 2A: H319 STOT (SE) 3: H336 EUH066
7790-69-4	Lithium nitrate 01-2119968667-16	0.09 -1.0 %	232-218-9 NA	Ox. Sol. 3: H272
4197-25-5	2,3-Dihydro-2,2-dimethyl-6-[[1-naphthyl-4-(phenylazo)]azo]-1H-perimidine	0.98 -4.9 %	224-087-1 NA	Mutagen 2: H341



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		Section 4. First Aid Measures				
4.1	Description of First Aid	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:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.				
	In Case of Skin Contact:	Wash off with soap and plenty of water. Consult a physician.				
	In Case of Eye Contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.				
	In Case of Ingestion:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.				
4.2	Important Symptoms 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 The most important known symptoms and effects are described in the labelling (see section 2.2) a nd/or in section 11 and/or in section 11				
4.3	Indication of any immediate medical attention and special treatment needed:	No data available.				
		Section 5. Fire Fighting Measures				
5.1	Suitable Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.				
5.2	Flammable Properties and Hazards:	Carbon oxides.				
		No data available.				
	Flash Pt:	> -17.00 C Method Used: Estimate				
	Explosive Limits:	LEL: No data. UEL: No data.				
	Autoignition Pt:	> 365.00 C				
5.3	Fire Fighting Instructions:	Wear self contained breathing apparatus for fire fighting if necessary. Further information.				
	Ş	Section 6. Accidental Release Measures				
6.1	Protective Precautions Protective Equipment and Emergency Procedures:	 Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8. 				
6.2	Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.				
6.3	Methods and Material For Containment and Cleaning Up:	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).				
		Section 7. Handling and Storage				
7.1	Precautions To Be Taken in Handling:	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.				
7.2	Precautions To Be	Keep container tightly closed in a dry and well-ventilated place. Containers which are				



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Taken in Storing:

opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature: 2 - 8 deg.C. Storage class 510) Handle and store under inert gas. Hygroscopic.

Other Precautions:

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8. Exposure Controls/Personal Protection

8.1 E	8.1 Exposure Parameters:					
CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations		
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)			
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: ()			
109-60-4	Propyl acetate	ACGIH TLV	TLV: 200 ppm STEL: 250 ppm			
		France VL	TWA: 840 mg/m3 (200 ppm)			
		OSHA PELs	PEL: 200 ppm			
		Britain EH40	TWA: 849 mg/m3 (200 ppm) STEL: 1060 mg/m3 (250 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.

8.2.2 Personal protection equipment:

-	
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: Nitrile rubber, Minimum layer thickness: 0.4 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. Splash contact: Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 110 min.
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 Equipment Where risk assessment shows air-purifying respirators are appropriate use a full-face

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(Specify Type):	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).
	the lends in accordance with read inductive by rises and estate practice. Mark hands

Work/Hygienic/Mainten Handle in accordance with good industrial hygiene and safety practice. Wash handsance Practices:before breaks and at the end of workday.

 8.2.3 Environmental
 Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

 Exposure Controls:
 Discharge into the environment must be avoided.

 Exposure Scenarios:
 No data available.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

0.1	Information on Basic r hysica	
	Physical States:	[]Gas [X]Liquid []Solid
	Appearance and Odor:	Color: Dark solvent odor. liquid.
	pH:	No data.
	Melting Point:	-95.00 C - 121.7 C (251.11 F)
	Boiling Point:	56.00 C - 315.6 C (600.00 F)
	Flash Pt:	> -17.00 C Method Used: Estimate
	Evaporation Rate:	No data.
	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.
	Vapor Density (vs. Air = 1):	No data.
	Specific Gravity (Water = 1):	No data.
	Density:	~ 0.8377 G/ML (~ 6.99 - LB/GA)
	Solubility in Water:	miscible
	Octanol/Water Partition	No data.
	Coefficient:	
	Autoignition Pt:	> 365.00 C
	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 ph	nysical hazard classes

- Information with regard to
 - primary physical hazard:
- 9.2.2 Other safety characteristics



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			Section 10. Stability and	l Reacti	vity		
10.1	Reactiv	vity:	No data available.				
10.2	Stabilit	-	Unstable [] Stable [X]				
			Vapors may form explosive mixture wi	th air. No d	ata availabl	e.	
Hazardous Reactions:							
Possibility of Hazardous Reactions:			Will occur [] Will not occur [X]				
40.4			llest flemes and ensuite Estremes of	4		• • • • • • · · · · · · • • •	
10.4 Conditions To Avoid - Heat, flames and sparks. Extremes of temperature and direct sunlight. Instability:			t sunlight.				
10.5	-	atibility -	Strong oxidizing agents, Strong reduct				•
	Materia	lls To Avoid:	Oxidizing agents, Acid anhydrides, Alu Oxidizing agents.	ıminum, Ha	logenated o	compounds, A	Acids.
10.6	Hazard	ous	Other decomposition products: No dat	a available.			
	Decom	position or	In the event of fire: see section 5.				
	Byprod	ucts:					
			Section 11. Toxicological	Informa	ation		
11.1	Informa	ation on	Germ cell mutagenicity. No data availa	able.			
	Toxicol	ogical Effects:	Reproductive toxicity. Aspiration haza		•		
			Inhalation: Dermal. Skin and Appenda	-			
	Irritatio	n or Corrosion:	Skin corrosion/irritation. Provide adequ				
			Result: Tumorigenic:Tumors at site or application. Mild eye irritation -24. Serious eye				
			damage/eye irritation: Eyes - rabbit -				
	c	Soncitization	No data available. Serious eye damage/eye irritation no data available. Guinea pig 88%, 4				
Sensitization:			Result: Tumorigenic:Tumors at site or application. No data available.				
	Chronie	c Toxicological					
	Effects	•	Specific target organ toxicity - repeate	•	•		
			exposure (Globally Harmonized System) No data available.				
			Specific target organ toxicity -repeated exposure: no data available. Inhalation. Oral.				
	Carcino	ogenicity/Other					
	Informa	ation:	based on its IARC, ACGIH, NTP, or EPA classification. IARC: No component of this				
			product present at levels greater than	•			•
			or confirmed human carcinogen by IAI		•	•	•
			levels greater than or equal to 0.1% is NTP. OSHA: No component of this pro			•	
			0.1% is identified as a carcinogen or p	•		-	•
			Not classifiable as to its carcinogenicit				-
			product present at levels greater than			•	
			potential carcinogen by ACGIH.	·			Ũ
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
67	'-64-1	Acetone		n.a.	n.a.	A4	n.a.
64	-17-5	Ethyl alcohol		n.a.	1	A4	n.a.
109	9-60-4	Propyl acetate		n.a.	n.a.	n.a.	n.a.
779	0-69-4	Lithium nitrate		n.a.	n.a.	n.a.	n.a.
419	7-25-5	2,3-Dihydro-2.2-d	limethyl-6-[[1-naphthyl-4-(phenylazo)]azo]-	n.a.	n.a.	n.a.	n.a.
1H-perimidine			,, (())] , .]				



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	Section 12. Ecological Information					
12.1	Toxicity:	No data available.				
12.2	Persistence and Degradability:	Biodegradability Result: 91 % -Readily biodegradable Readily biodegradable. No data available.				
12.3	Bioaccumulative Potential:	Does not bioaccumulate. No data available.				
12.4	Mobility in Soil:	No data available.				
12.5	Results of PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.				
12.6		environmental hazard cannot be excluded in the event of unprofessional handling or posal. Harmful to aquatic life. No data available.				
		Section 13. Disposal Considerations				
13.1	Waste Disposal Method:	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. Contaminated packaging.				
		Section 14. Transport Information				
GHS	GHS Classification: Flammable Liquids, Category 2 - Danger! Highly flammable liquid and vapor Serious Eye Damage/Eye Irritation, Category 2A - Warning! Causes serious eye irritation Specific Target Organ Toxicity (single exposure), Category 3 - Warning! May cause respiratory irritation, or may cause drowsiness and dizziness Aquatic Toxicity (Acute), Category 3 - Harmful to aquatic life Aquatic Toxicity (Chronic), Category 3 - Harmful to aquatic life with long lasting effects Skin Corrosion/Irritation, Category 2 - Warning! Causes skin irritation Acute Toxicity: Skin, Category 4 - Warning! Harmful in contact with skin Acute Toxicity: Inhalation, Category 4 - Warning! Harmful if inhaled					
14.1	LAND TRANSPORT (U	S DOT):				
	OT Proper Shipping Nan OT Hazard Class:	 Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable] 3 FLAMMABLE LIQUID 				
U	N/NA Number:	UN1210 II				
	FLEMMEDE LIQUE					
14.1	LAND TRANSPORT (C					
TI	DG Shipping Name:	Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]				
	N Number: azard Class:	1210 Packing Group: II 3 - FLAMMABLE LIQUID TDG Classification:				

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inspire t	IIE NEXL				Revision: 03/07/2022
14.1 LAND	TRANSPORT (Euro	pean ADR/RID):			
ADR/RID	Shipping Name:	Printing ink, [flammable or] Printing ink related material [(including printing ink			
UN Number:		thinning or reducing com	. ,	-	
		1210	Packing G	oup:	II
Hazard C		3 - FLAMMABLE LIQUID)		
	RANSPORT (ICAO/I				
ICAO/IAT	A Shipping Name:		Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]		
UN Num	ber:	1210	Packing G	-	II
Hazard C		3 - FLAMMABLE LIQUID	•		
		Section 15. Regul	atory Inform	ation	
EPA SARA (S	Superfund Amendment	ts and Reauthorization Act o	of 1986) Lists		
CAS #	Hazardous Compor	nents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
67-64-1	Acetone		No	Yes NA	No
64-17-5	Ethyl alcohol		No	No	No
109-60-4	Propyl acetate		No	No	No
7790-69-4	Lithium nitrate		No	No	Yes-Cat. N511
4197-25-5	2,3-Dihydro-2,2-dime azo)]azo]-1H-perimic	ethyl-6-[[1-naphthyl-4-(phenyl line	No	No	No
CAS #	Hazardous Compor	nents (Chemical Name)	Canadian NPRI	Canadian Toxic	Canadian DSL
67-64-1	Acetone		No	No	Yes
64-17-5	Ethyl alcohol		Yes: Part 5		Yes
109-60-4	Propyl acetate		No	No	Yes
7790-69-4	Lithium nitrate				Yes
4197-25-5	2,3-Dihydro-2,2-dime azo)]azo]-1H-perimic	ethyl-6-[[1-naphthyl-4-(phenyl line	No	No	Yes
California F	Proposition 65				
		duct can expose you to che rnia to cause cancer. For m	•	•	
CAS #	Hazardous Compor	nents (Chemical Name)	Other US EPA or State Lists		
67-64-1	Acetone		TSCA: Yes - Inve	ntory; CA PROP.65:	No
64-17-5	Ethyl alcohol		TSCA: Yes - Inventory; CA PROP.65: No		
109-60-4	Propyl acetate		TSCA: Yes - Inventory; CA PROP.65: No		
7700 00 4					Nia

4197-25-5 2,3-Dihydro-2,2-dimethyl-6-[[1-naphthyl-4-(phenyl azo)]azo]-1H-perimidine

CAS # Hazardous Components (Chemical Name) 67-64-1 Acetone

Lithium nitrate

7790-69-4

Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 2-542; Japan ISHL: No; Korea ECL: Yes - KE-29367; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: Yes - 6: WGK 1; Switzerland Giftliste 1: Yes -

TSCA: Yes - Inventory; CA PROP.65: No

TSCA: Yes - Inventory; CA PROP.65: No

G-1031; Switzerland INNS: No; REACH: Yes -

International Regulatory Lists

01-2119471330-49: Full, (P)

HITA Inspire th		′ DATA SHEET P-K77 _F	Page: 9 Revision: 03/07/2022
109-60-4	Propyl acetate	Taiwan TCSCA: Yes; Singapore HSL: No; Cat.; Germany WHCS: Yes - 96: WGK 1; S 1: Yes - G-1158; Switzerland INNS: No; RE 01-2119457610-43: Full, (P) Mexico INSQ: Yes - 1276; Australia ICS: Ye	Switzerland Giftliste EACH: Yes -
		IOC: Yes; China IECSC: Yes; Japan ENCS Japan ISHL: No; Korea ECL: Yes - KE-297 ICCS: Yes; Taiwan TCSCA: Yes; Singapor HSL: No; Germany WHCS: Yes - 178: WGF Giftliste 1: Yes - G-2793; Switzerland INNS 01-2119484620-39: Full, (P)	S: Yes - 2-727; 78; Philippines re HSL: No; Israel K 1; Switzerland
7790-69-4	Lithium nitrate	Mexico INSQ: Yes - 2722; Australia ICS: Ye IOC: Yes; China IECSC: Yes; Japan ENCS Japan ISHL: No; Korea ECL: Yes - KE-225 ICCS: Yes; Taiwan TCSCA: Yes; Singapor HSL: No; Germany WHCS: Yes - 7389: WC Giftliste 1: Yes - G-8217; Switzerland INNS 01-2119968667-16: Full, (P)	S: Yes - 1-765; 82; Philippines re HSL: No; Israel GK 1; Switzerland
4197-25-5	2,3-Dihydro-2,2-dimethyl-6-[[1-naphthyl-4-(phenyl azo)]azo]-1H-perimidine	Mexico INSQ: No; Australia ICS: Yes; New China IECSC: Yes; Japan ENCS: Yes - 5-3 No; Korea ECL: Yes - KE-08505; Philippine Taiwan TCSCA: Yes; Singapore HSL: No; Germany WHCS: No; Switzerland Giftliste INNS: No; REACH: Yes - (P)	141; Japan ISHL: es ICCS: Yes; Israel HSL: No;

Section 16. Other Information

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Additional Information About No data available.

This Product:

Company Policy or Disclaimer:

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