

(800)424-9300

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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

 Product Code:
 S2081

 Product Name:
 S2081

 X Code:
 X(A49)1271

### 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

Section 2. Hazards Identification

- 2.1 Classification of the Substance or Mixture: Flammable Liquids, Category 1 Acute Toxicity: Oral, Category 4 Specific Target Organ Toxicity (single exposure), Category 3 Aquatic Toxicity (Acute), Category 3 Aquatic Toxicity (Chronic), Category 3
- 2.2 Label Elements:



**GHS Signal Word:** 

Danger

### Hazard-determining components of labelling:

Acetone

Propyl acetate

### **GHS Hazard Phrases:**

- H224 Extremely flammable liquid and vapor.
- H302 Harmful if swallowed.
- 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.
- 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.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.



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P273 - Avoid release to the environment.

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

P235 - Keep cool.

# GHS Response Phrases:

P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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.

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

P330 - Rinse mouth.

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. Reacts violently with Effects and Symptoms: water. May form explosive peroxides. Repeated exposure may cause skin dryness or cracking. Hazards not otherwise 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	90.0 -99.0 %	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	0.953 -4.765 %	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

# Section 4. First Aid Measures

Description of First AidConsult a physician. Show this safety data sheet to the doctor in attendance. Move out of 4.1 dangerous area. Measures: In Case of Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of In Case of Skin water. Consult a physician. Contact: In Case of Eye Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Contact: Continue rinsing eyes during transport to hospital. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. In Case of Ingestion: Rinse mouth with water. Consult a physician. The most important known symptoms and effects are described in the labelling (see 4.2 Important Symptoms section 2.2) and/or in section 11 The most important known symptoms and effects are and Effects, Both described in the labelling (see section 2.2) a nd/or in section 11 and/or in section 11 Acute and Delayed: 4.3 Indication of any No data available.



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immediate medical attention and special treatment needed:

### Section 5. Fire Fighting Measures **Suitable Extinguishing** Dry powder. Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. 5.1 Media: 5.2 Flammable Properties Carbon oxides, Carbon oxides. and Hazards: No data available. > -40.00 C Method Used: Unknown Flash Pt: LEL: No data. UEL: No data. **Explosive Limits:** > 165.00 C **Autoignition Pt:** Wear self contained breathing apparatus for fire fighting if necessary. 5.3 **Fire Fighting** Instructions: Further information. Section 6. Accidental Release Measures 6.1 Protective Precautions, Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. **Protective Equipment** Beware of vapours accumulating to form explosive concentrations. Vapours can and Emergency accumulate in low areas. For personal protection see section 8. **Procedures:** 6.2 Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Environmental Discharge into the environment must be avoided. **Precautions: Methods and Material** Contain spillage, and then collect with an electrically protected vacuum cleaner or by 6.3 wet-brushing and place in container for disposal according to local regulations (see For Containment and section 13). Do not flush with water. **Cleaning Up:** Section 7. Handling and Storage Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof 7.1 **Precautions To Be** equipment. Keep away from sources of ignition - No smoking. Take measures to prevent Taken in Handling: the build up of electrostatic charge. For precautions see section 2. Keep container tightly closed in a dry and well-ventilated place. Containers which are 7.2 **Precautions To Be** Taken in Storing: opened must be carefully resealed and kept upright to prevent leakage. Never allow product to get in contact with water during storage. Light sensitive. Air sensitive. Heat sensitive. Test for peroxide formation periodically and before distillation. Handle and store under inert gas. Dry residue is explosive. Recommended storage temperature: 2 -8 deg.C. Storage class 510) Hygroscopic. Apart from the uses mentioned in section 1.2 no other specific uses are stipulated. **Other Precautions:** Section 8. Exposure Controls/Personal Protection 8.1 **Exposure Parameters:**

0.1 6/				
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)	



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		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 (Ventilation etc.):
 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:Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye<br/>protection tested and approved under appropriate government standards such as<br/>NIOSH (US) or EN 166(EU). Face shield and safety glasses.
- Protective Gloves:Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal<br/>technique (without touching glove's outer surface) to avoid skin contact with this product.<br/>Dispose of contaminated gloves after use in accordance with applicable laws and good<br/>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 ProtectiveComplete suit protecting against chemicals. Flame retardant antistatic protective<br/>clothing. Impervious clothing. The type of protective equipment must be selected
- according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory EquipmentWhere 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<br/>cartridges as a backup to engineering controls. If the respirator is the sole means of<br/>protection, use a full-face supplied air respirator. Use respirators and components tested<br/>and approved under appropriate government standards such as NIOSH (US) or CEN<br/>(EU).

Work/Hygienic/Mainten Handle in accordance with good industrial hygiene and safety practice. Wash hands ance 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.



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	Sectior	9. Physical and Chemical Properties			
9.1	Information on Basic Physical and Chemical Properties				
	Physical States:	[]Gas [X]Liquid []Solid			
	Appearance and Odor:	Color: Clear. liquid. solvent odor.			
	pH:	No data.			
	Melting Point:	-82.4 C (-116.28 F) - 137.00 C			
	Boiling Point:	1.5 C (34.61 F) - 102.00 C			
	Flash Pt:	>-40.00 C Method Used: Unknown			
	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. No data.			
	Specific Gravity (Water = 1): Density:	0.7885 G/ML (6.58 - LB/GA)			
	•	miscible			
	Solubility in Water: Octanol/Water Partition				
	Coefficient:	No data.			
	Autoignition Pt:	> 165.00 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

	Section 10. Stability and Reactivity				
10.1	Reactivity:	No data available.			
10.2	Stability:	Unstable [ ] Stable [ X ]			
10.3	Conditions To Avoid -	Vapors may form explosive mixture with air. Reacts violently with water. No data			
	Hazardous Reactions:	available.			
	Possibility of	Will occur [ ] Will not occur [ X ]			
	Hazardous Reactions:				
10.4	Conditions To Avoid -	Heat, flames and sparks. Extremes of temperature and direct sunlight. Exposure to			
	Instability:	moisture.			
10.5	Incompatibility -	Oxidizing agents, Strong acids, Alcohols, acids, Reacts violently with water. Strong			
	Materials To Avoid:	oxidizing agents, Strong reducing agents, Bases, Strong oxidizing agents. Acid			
		anhydrides, Aluminum, Halogenated compounds, Acids. Oxidizing agents.			
10.6	Hazardous	Other decomposition products: No data available. In the event of fire: see section 5.			
	Decomposition or				
		Multi-region fo			



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# Byproducts:

		Section 11. Toxicologic	al Informa	ation		
11.1	Information on	Germ cell mutagenicity. No data av	ailable.			
	Toxicological Effects:	Reproductive toxicity. Aspiration ha	zard: Acute to:	xicity.		
		Inhalation: Dermal. Skin and Apper	dages: Other:	Hair.		
	Irritation or Corrosion:	Skin corrosion/irritation. No data av	ailable.			
		Serious eye damage/eye irritation:	Provide adequ	ate ventilatio	n.	
		Result: Tumorigenic:Tumors at site	or application.	Mild eye irrit	ation -24. E	yes - rabbit -
		Serious eye damage/eye irritation r	o data availab	le.		
	Sensitization:	Guinea pig 88%, 4				
		Result: Tumorigenic:Tumors at site	or application.	No data ava	ilable.	
	Chronic Toxicological	Specific target organ toxicity - singl	e exposure: No	o data availat	ole.	
	Effects:	Specific target organ toxicity - repeated exposure: May cause drowsiness or dizziness.			or dizziness.	
		Specific target organ toxicity -single exposure (Globally Harmonized System) Specific				
		target organ toxicity -repeated expo	sure: no data	available. Inh	alation. Ora	ıl.
	Carcinogenicity/Other	IARC: No component of this produc	t present at lev	vels greater t	han or equa	ıl to 0.1% is
	Information:	identified as probable, possible or o	onfirmed hum	an carcinoge	n by IARC. /	ACGIH: No
		component of this product present	at levels greate	er than or equ	ual to 0.1% i	s identified as
		a carcinogen or potential carcinoge	n by ACGIH. N	ITP: No com	ponent of th	is product
		present at levels greater than or eq	ual to 0.1% is i	dentified as a	a known or a	anticipated
		carcinogen by NTP. OSHA: No con	ponent of this	product pres	ent at levels	s 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. IARC: 3 -Group 3: Not classifiable as to			ssifiable as to	
		its carcinogenicity to humans.				
CAS #	# Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA

			OONA
n.a.	n.a.	A4	n.a.
n.a.	1	A4	n.a.
n.a.	n.a.	n.a.	n.a.
	n.a. n.a.	n.a. n.a. n.a. 1	n.a. 1 A4

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	Other adverse effects:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life. No data available.			



Method	Disposal P d: B ca	Section 13. Dispos roduct. urn in a chemical incinerate			
Method	d: B	urn in a chemical incinerate	br oquippod with a		
GHS Classifi	di C cation: F	are in igniting as this mater olutions to a licensed dispo isposal service to dispose of ontaminated packaging. Section 14. Tran Flammable Liquids, Catego	ial is highly flamm sal company. Cor of this material. <b>Sport Inform</b> ry 1 - Danger! Ext	able. Offer surplu itact a licensed pr nation remely flammable	is and non-recyclable rofessional waste e liquid and vapor
	S ru A	Acute Toxicity: Oral, Catego Specific Target Organ Toxic espiratory irritation, or may Aquatic Toxicity (Acute), Ca Aquatic Toxicity (Chronic), (	ity (single exposu cause drowsiness tegory 3 - Harmfu	re), Category 3 - s and dizziness Il to aquatic life	Warning! May cause
4.1 LAND	TRANSPORT (US I	DOT):			
	er Shipping Name	thinning or reducing com	pound), flammabl		oluding printing ink
DOT Haza UN/NA Nເ		3 FLAMM UN1210	ABLE LIQUID		II
	TRANSPORT (Can ping Name:	adian TDG): Printing ink, [flammable	or] Printing ink rel	ated material [(in	cluding printing ink
		thinning or reducing con	npound), flammab	le]	
UN Numb Hazard Cl		1210 3 - FLAMMABLE LIQUII	Packing G D TDG Class	-	II
				incation:	
	TRANSPORT (Euro Shipping Name:	Printing ink, [flammable thinning or reducing con		- ·	cluding printing ink
UN Numb Hazard Cl		1210 3 - FLAMMABLE LIQUII	)		II
	RANSPORT (ICAO/	•			
	A Shipping Name:	Printing ink, [flammable thinning or reducing con	npound), flammab	le]	
UN Numb Hazard Cl		1210 3 - FLAMMABLE LIQUII	Packing G	roup:	II
				nation	
		Section 15. Regu			
EPA SARA (Si CAS #	-	Its and Reauthorization Act nents (Chemical Name)	of 1986) Lists S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
67-64-1	Acetone	nente (onennear Manne)	3. 302 (EH3) No	3. 304 KQ Yes NA	3. 313 (TRI) No
64-17-5	Ethyl alcohol		No	No	No
109-60-4	Propyl acetate		No	No	No



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CAS #	Hazardous Components (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
CAS #	Hazardous Components (Chemical Name)	Other US EPA or S	State Lists	
67-64-1	Acetone	CAA HAP,ODC: N Inventory; CA PRO	o; CWA NPDES: No; OP.65: No	TSCA: Yes -
64-17-5	Ethyl alcohol	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		
109-60-4	Propyl acetate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		
CAS #	Hazardous Components (Chemical Name)	International Regu	ulatory Lists	
67-64-1	Acetone	Yes; China IECSC ISHL: No; Korea E Taiwan TCSCA: Yo 6: WGK 1; Switzer	es; Israel HSL: No; (	Yes - 2-542; Japan Philippines ICCS: Yes; Germany WHCS: Yes - G-1031; Switzerland
64-17-5	Ethyl alcohol	Yes; China IECSC ISHL: No; Korea E Taiwan TCSCA: Yo Yes - 96: WGK 1;	es; Israel HSL: Yes - Switzerland Giftliste 1	Yes - 5-153; Japan Philippines ICCS: Yes; Cat.; Germany WHCS:
109-60-4	Propyl acetate	IOC: Yes; China II Japan ISHL: No; <i>F</i> ICCS: Yes; Taiwa WHCS: Yes - 178:	- 1276; Australia ICS ECSC: Yes; Japan E Korea ECL: Yes - KE- n TCSCA: Yes; Israe WGK 1; Switzerland nd INNS: No; REACI 9: Full, (P)	NCS: Yes - 2-727; 29778; Philippines I HSL: No; Germany Giftliste 1: Yes -

# **Section 16. Other Information**

**Revision Date:** 

### 03/11/2022

Additional Information About No data available.

**This Product:** 

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