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Safety Data Sheet (SDS)

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	Ink-Y104
Product Code	JP-Y104
Reference Number	30
Name of Supplier	Hitachi Industrial Equipment Systems Co.,Ltd.
Address	1-1 Higashitaga-cho 1-chome,Hitachi-shi, Ibaraki-ken, 316-8502 Japan
Department in Charge	Ink Group, Marking Systems and Hoist Systems Division
Phone Number	+81-294-36-8682
Fax Number	+81-294-36-8975
Mail Address	aida-kohhei@hitachi-ies.co.jp
Emergency Phone Number	+81-294-36-8682
Recommended Use	Industrial ink jet printers
Restriction on Use	If the product is to be used for applications other than those recommended, seek the judgment of an expert/chemical substance specialist, etc.

Section 2 – HAZARDS IDENTIFICATION

GHS Classification of the Chemical

Physicochemical	Flammable liquids Category 2
Health Hazards	Acute toxicity (oral) Category 4 Acute toxicity (Inhalation: vapour) Category 4 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Skin sensitization Category 1 Carcinogenicity Category 1A Reproductive toxicity Category 1A Specific target organ toxicity (single exposure) Category 2 (kidney) Specific target organ toxicity (single exposure) Category 3 (narcotic effects, respiratory tract irritation, respiratory tract irritation) Specific target organ toxicity (repeated exposure) Category 1 (nervous system) Specific target organ toxicity (repeated exposure) Category 2 (central nervous system, auditory organs, liver)
Environmental Hazards	Hazardous to the aquatic environment, short-term (acute) Category 3 Hazardous to the aquatic environment, long-term (chronic) Category 3 Other hazards than mentioned above are Not classified or Classification not possible.

GHS Label Elements

Pictograms



Signal Word	Danger
Hazard Statements	H225 Highly flammable liquid and vapour H302+H332 Harmful if swallowed or if inhaled H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation

H335 May cause respiratory irritation
 H336 May cause drowsiness or dizziness
 H350 May cause cancer
 H360 May damage fertility or the unborn child
 H371 May cause damage to kidney
 H372 Causes damage to nervous system through prolonged or repeated exposure
 H373 May cause damage to liver, central nervous system, auditory organs through prolonged or repeated exposure
 H412 Harmful to aquatic life with long lasting effects

Precautionary Statements

Prevention

Obtain special instructions before use.(P201)
 Do not handle until all safety precautions have been read and understood.(P202)
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.(P210)

Keep container tightly closed.(P233)
 Ground and bond container and receiving equipment.(P240)
 Use explosion-proof electrical, ventilating and lighting equipment.(P241)
 Use non-sparking tools.(P242)
 Take action to prevent static discharges.(P243)

Do not breathe dust/fume/gas/mist/vapours/spray.(P260)
 Avoid breathing dust/fume/gas/mist/vapours/spray.(P261)
 Wash hands thoroughly after handling.(P264)
 Wash eyes thoroughly after handling.(P264)
 Do not eat, drink or smoke when using this product.(P270)
 Use only outdoors or in a well-ventilated area.(P271)

Contaminated work clothing should not be allowed out of the workplace.(P272)
 Avoid release to the environment.(P273)
 Wear protective gloves/protective clothing/eye protection/face protection.(P280)

Response

IF SWALLOWED: Call a doctor if you feel unwell.(P301+P312)
 IF ON SKIN: Wash with plenty of soap and water.(P302+P352)
 IF ON SKIN or hair: Take off immediately all contaminated clothing. Rinse skin with water or shower.(P303+P361+P353)
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.(P304+P340)
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)

IF exposed or concerned: Call a doctor.(P308+P311)

IF exposed or concerned: Get medical advice/attention.(P308+P313)
 Call a doctor if you feel unwell.(P312)
 Get medical advice and attention if you feel unwell.(P314)
 Specific treatment.(P321)

Suitable Extinguishing Media		Use extinguishing agent suitable for type of surrounding fire. When dust occurs, use dry sand.
Unsuitable Extinguishing Media		Cylindric water.
Specific Hazards in Case of Fire		Risk of producing harmful gases such as carbon monoxide. Avoid inhalation of smoke or gases.
Specific Fire Fighting		Fight fire from upwind position if possible Keep away from sources of ignition and use appropriate extinguishing media. Prohibit unauthorized staff from entering the area around the fire. Keep unnecessary people away.
Special Protective Equipment and Precautions for Fire Fighters		Use goggles in combination with dust mask, and another protections as appropriate to situation.
Section 6 – ACCIDENTAL RELEASE MEASURES		
Personal Precautions, Protective Equipment and Emergency Procedures		Use goggles in combination with dust mask, and another protections as appropriate to situation.
Environmental Precautions		Large spills :Evacuate area. Ensure adequate ventilation. Do not discharge into the drains, surface waters or ground water directly.
Methods and Equipment for Containment and Cleaning Up		No information available
Prevention Measures for Secondary Accidents		Keep away from sources of ignition and prepare extinguishing media.
Section 7 – HANDLING AND STORAGE		
Handling	Technical Measures	Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION". Ground/bond container and receiving equipment. Use only non-sparking tools. Use explosion-proof electrical/ventilating/lighting. Take precautionary measures against static discharge. Use local exhaust ventilation in case of production of fume or mist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
	Precautions for Safe Handling	Contaminated work clothing should not be allowed out of the workplace. Keep cool. Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
	Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
Storage	Conditions for Safe Storage	Refer to "Section 10 – STABILITY AND REACTIVITY". Store locked up. Store container tightly closed in well-ventilated place.

As far as we know, the information that is listed here is accurate. However, the above-mentioned suppliers or their subsidiaries shall not be liable for the accuracy or completeness of the information described above.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

	Japan Administration Level	Exposure Limits (Japan Society for Occupational Health)	TLVs (ACGIH)
Methyl ethyl ketone	200ppm	200ppm(590mg/m ³)	TWA 200 ppm, STEL 300 ppm
Titanium(IV) oxide	Not listed	0.3 mg/m ³ ; [Dust allowable concentration] (Second type dust) inhalative dust 1mg/m ³ Total dust 4mg/m ³	TWA 10 mg/m ³ , STEL –
Methanol	200ppm	200ppm(260mg/m ³)(skin)	TWA 200 ppm, STEL 250 ppm (Skin)
Ethanol	Not listed	Not listed	TWA –, STEL 1000 ppm
1-Butanol	25ppm	[Maximum allowable concentration:] 50ppm (150mg/m ³) (skin)	TWA 20 ppm, STEL –
Iodides	Not listed	Not listed	Not listed
Chromium and its compounds	Not listed	0.5mg/m ³ as Cr ³⁺	Not listed

	Concentration standards specified by the Minister of Health, Labour and Welfare	
	Concentration standard value for 8-hours exposure	Concentration standard value for short-term exposure/ceiling
Methyl ethyl ketone	Not listed	Not listed
Titanium(IV) oxide	Not listed	Not listed
Methanol	Not listed	Not listed
Ethanol	Not listed	Not listed
1-Butanol	Not listed	Not listed
Iodides	Not listed	Not listed
Chromium and its compounds	Not listed	Not listed

TLVs (ACGIH) can be referenced at: <https://www.acgih.org/>

Engineering Controls		Use local exhaust ventilation in case of production of fume or mist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use explosion-proof electrical equipment and prevent from static electricity.
Personal Protective Equipment	Respiratory Protection	Select and wear appropriate respiratory protective equipment based on risk assessments and other measures.
	Hand Protection	Wear appropriate protective equipment, including impervious or impermeable safety gloves, as circumstances dictate. Select and wear appropriate safety gloves based on risk assessments and other measures.
	Eye/Face Protection	Select and wear appropriate face and eye protection based on risk assessments and other measures.
	Skin and Body Protection	Wear appropriate protective equipment such as impervious and impermeable protective clothing and footwear, as circumstances dictate. Select and wear appropriate protective clothing and footwear based on risk assessments and other measures.

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Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State		Liquid
Form		Liquid
Colour		Yellow
Odour		Solvent odor
Melting Point/Freezing Point		-86.4°C (as 2-Butanone)
Boiling Point or Initial Boiling Point and Boiling Ranges		79.6 °C (as 2-Butanone)
Flammability		Flammability
Lower and Upper Explosion Limit / Flammability Limit	Lower Limit	1.8vol% (as 2-Butanone)
	Upper Limit	11.5vol% (as 2-Butanone)
Flash Point		-3.9°C (Tag Closed Cup)
Auto-Ignition Temperature		505°C (as 2-Butanone)
Decomposition Temperature		No data available
pH		No data available
Kinematic Viscosity		7.3mm ² /s
Solubility		water: 29g/100mL (20°C) (as 2-Butanone)
Partition Coefficient : n-Octanol/Water		0.29(as 2-Butanone)
Vapour Pressure		10.5kPa (20°C) (as 2-Butanone)
Density and/or Relative Density		0.95
Relative Gas Density		2.41 (Air=1, as 2-Butanone)
Particle Characteristics		No data available

Section 10 – STABILITY AND REACTIVITY

Reactivity		Does not react dangerously under normal conditions.
Chemical Stability		Stable under normal conditions of use.
Possibility of Hazardous Reaction		Flammable
Conditions to Avoid		There is a risk of explosion due to impacts, friction, flame and other source of ignition.
Incompatible Substances or Mixtures		No data available
Hazardous Decomposition Products		No data available
Other Data		No data available

Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	Oral	Classified as Category 4 since ATE is 300 to 2000(mg/kg).
	Dermal	Classification not possible since lots of the concentrations of unknown ingredients.
	Inhalation	(gas) Does not fall under gas based on GHS definitions.
		(vapour) Classified as Category 4 since ATE is 2500 to 20000(ppmV). (dust and mist) Classification not possible since lots of the concentrations of unknown ingredients.
Skin Corrosion/Irritation		Classified as Category 2 since the sum of Category 2 ingredients is more than 10%.
Serious Eye Damage/Eye Irritation		Classified as Category 2A since the sum of 10 × (Eye Category 1 + Skin Category 1) is more than 10%.

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Respiratory Sensitization	Classification not possible since lots of the concentrations of unknown ingredients.
Skin Sensitization	Classified as Category 1 since one of the Category 1 ingredients is more than 1.0%.
Germ Cell Mutagenicity	Classification not possible since lots of the concentrations of unknown ingredients.
Carcinogenicity	Classified as Category 1A since one of the Category 1A ingredients is more than 0.1%.
Reproductive Toxicity	(Reproductive toxicity) Classified as Category 1A since one of the Category 1A ingredients is more than 0.3%. (Reproductive toxicity, effects on or via lactation) Classification not possible since lots of the concentrations of unknown ingredients.
Specific Target Organ Toxicity (Single Exposure)	Classified as Category 2(kidney) since one of the Category 2(kidney) ingredients is more than 10%. Classified as Category 2(kidney) since one of the Category 2(kidney) ingredients is more than 10%. Classified as Category 3(narcotic effects) since the sum of Category 3(narcotic effects) ingredients is more than 20%. Classified as Category 3(respiratory tract irritation) since the sum of Category 3(respiratory tract irritation) ingredients is more than 20%. Classified as Category 3(respiratory tract irritation) since the sum of Category 3(respiratory tract irritation) ingredients is more than 20%.
Specific Target Organ Toxicity (Repeated Exposure)	Classified as Category 1(nervous system) since one of the Category 1(nervous system) ingredients is more than 10%. Classified as Category 1(nervous system) since one of the Category 1(nervous system) ingredients is more than 10%. Classified as Category 2(liver) since one of the Category 1(liver) ingredients is 1 to 10%. Classified as Category 2(central nervous system) since one of the Category 1(central nervous system) ingredients is 1 to 10%. Classified as Category 2(auditory organs) since one of the Category 1(auditory organs) ingredients is 1 to 10%.
Aspiration Hazard	Classification not possible since lots of the concentrations of unknown ingredients.
Section 12 – ECOLOGICAL INFORMATION	
Hazardous to the Aquatic Environment, Short-Term (Acute)	Classified as Category 3 since the sum of (M × 100 × Category 1) + (10 × Category 2) + Category 3 ingredients is more than 25%.
Hazardous to the Aquatic Environment, Long-Term (Chronic)	Classified as Category 3 since the sum of (M × 100 × Category 1) + (10 × Category 2) + Category 3 ingredients is more than 25%.
Ecotoxicity	No data available
Persistence	No data available

As far as we know, the information that is listed here is accurate. However, the above-mentioned suppliers or their subsidiaries shall not be liable for the accuracy or completeness of the information described above.

Bioaccumulative Potential	No data available
Mobility in Soil	No data available
Hazardous to the Ozone Layer	Unable to classify due to insufficient data.

Section 13 – DISPOSAL CONSIDERATIONS

Residual waste	<p>Because waste materials such as liquid waste, paper towels used to wipe it up, or empty containers are flammable combustible materials, the section on “specially controlled industrial waste(Flammable waste oil)” from the Waste Management and Public Cleaning Law (Waste Management Law) is applicable.</p> <p>Either appropriately process in accordance with Waste Management and Public Cleaning Law, or commission a contractor licensed for transport or disposal of industrial waste requiring special management.</p> <p>Do not let wastewater, etc. used for cleaning machinery or containers flow directly onto the ground or in to the culverts.</p> <p>For waste materials generated by wastewater treatment, incineration, etc. either carry out processing in accordance with the Waste Management and Public Cleaning Law and related laws and regulations, or commission a licensed vendor to do so.</p> <p>When incinerating of waste materials, etc., do not use an incinerator without cleaning equipment, as harmful gas will be generated.</p> <p>Clarify the contents of waste materials and entrust disposal to a waste disposal company.</p>
Contaminated containers and packaging	Empty containers should be treated as industrial wastes and not allowed to contain waste.

Section 14 – TRANSPORT INFORMATION

International Regulations	Regulatory Information by Sea	Conform to the provisions of IMO.
	UN No.	1210
	Proper Shipping Name	PRINTING INK RELATED MATERIAL
	Class	3
	Packing Group	II
	Marine Pollutant	Not applicable
	Liquid Substance	Not applicable
	Transported in Bulk According to MARPOL 73/78, Annex II, the IBC Code	
	Regulatory Information by Air	Conform to the provisions of ICAO/IATA.
	UN No.	1210
	Proper Shipping Name	PRINTING INK RELATED MATERIAL
	Class	3
	Packing Group	II
	Regulations in Japan	Regulatory Information by Road or Rail
	Regulatory Information by Sea	Conform to the provisions of the Ship Safety Law.
	UN No.	1210
	Proper Shipping Name	PRINTING INK RELATED MATERIAL
	Class	3
	Packing Group	II
	Marine Pollutant	Not applicable

As far as we know, the information that is listed here is accurate. However, the above-mentioned suppliers or their subsidiaries shall not be liable for the accuracy or completeness of the information described above.

Liquid Substance Not applicable
 Transported in Bulk
 According to MARPOL
 73/78, Annex II, the
 IBC Code

Regulatory Information Conform to the provisions of the Civil Aeronautics Law.
 by Air

UN No. 1210
 Proper Shipping Name PRINTING INK RELATED MATERIAL
 Class 3
 Packing Group II

Emergency Response Guide 130
 Number

Section 15 – REGULATORY INFORMATION

Industrial Safety and Health
 Act

Ordinance on the Prevention of Organic Solvent Poisoning Paragraph
 1 Article 1 part 4 (Second-class organic solvents, etc.), Enforcement
 Ordinance 2 of Appendix 6

Methanol
 Methyl ethyl ketone
 1-Butanol

the standards for work environment monitoring Article 65 part 2-1

Dangerous goods and hazardous goods for which the name, etc.
 should be indicated (Article 57, Paragraph 1 of the Act, Article 18,
 Item 2 ~ Item 3 of the Enforcement Order, Appended Table 2 of
 Article 30 of the Safety and Health Regulations)

Ethanol
 Butanol
 Methanol
 Methyl ethyl ketone
 Titanium(IV) oxide

Dangerous or Harmful Substances Subject to Be Indicated their
 Names, etc.

(Article 57 part 1, Order Article 18 part 1 and 2, Attached Table9)

Chromium and its compounds (excluding chromic acid and
 chromate and dichromate and dichromate)

Iodine compounds (iodides)

Dangerous Substances –Flammable substances(Order Article
 Appended Table 1 part 4)

Hazardous Substances to be notified in terms of Whose Names,etc
 (Article 57 part 2, Order Article 18 part 2-1and part 2, Attached
 Table9)

Chromium and its compounds (excluding chromic acid and
 chromate and dichromate and dichromate) (Trade Secrets)

Iodine compounds (iodides)(Trade Secrets)

Dangerous goods and hazardous goods whose names, etc. should be
 notified (Article 57-2, Paragraph 1 of the Act, Article 18-2, Item 2 ~
 Item 3 of the Enforcement Order, Article 34-2 Appended Table 2 of
 the Safety and Health Regulations)

Ethanol(Ordinance on Industrial Safety and Health Number of
 Appended Tables 2:205) (Trade Secrets)

Butanol(Ordinance on Industrial Safety and Health Number of
 Appended Tables 2:1705) (Trade Secrets)

Methanol(Ordinance on Industrial Safety and Health Number of
 Appended Tables 2:2006) (Trade Secrets)

Methyl ethyl ketone(Ordinance on Industrial Safety and Health
 Number of Appended Tables 2:2034) (Trade Secrets)

Titanium(IV) oxide(Trade Secrets)

Materials for special medical examinations and current handling workers(Industrial Safety and Health Act66 2 and Order for Enforcement of Industrial Safety and Health Act Article 22 (i))

Chemical substances that damage the skin, etc. / Harmful substances that cause skin irritation (Article 594-2, Paragraph 1 of the Safety and Health Regulations, No. 0531 No. 9 issued on May 31, 2020, No. 0704 issued on July 4, 2020) List of substances applicable to No. 1 and 5)

1 — Butanol

Chemical substances that damage the skin, etc., and harmful substances that absorb the skin (List of substances subject to Article 594-2, Paragraph 1 of the Safety and Health Regulations, 0531-9 issued on May 31, Reiwa 4, and 0704-1 and 5 of July 4, Reiwa 5)

Methanol

Methyl ethyl ketone

1 — Butanol

Industrial Safety and Health Act(after 2024/4/1)

Dangerous or Harmful Substances Subject to Be Indicated their Names, etc. (Article 57 part 1 ,Order Article 18 part 1 and 2, Attached Table9)

Hazardous Substances to be notified in terms of Whose Names,etc. (Article 57 part 2 ,Order Article 18 part 2-1and part 2, Attached Table9)

Chromium and its compounds (excluding hexavalent chromium compounds)(Trade Secrets)

Industrial Safety and Health Act(Substances subject to labeling and notification ,Carcinogenic substances) (Implementation in Reiwa 8)

Dangerous goods and hazardous goods for which the name, etc. should be indicated (Article 57, Paragraph 1 of the Act, Article 18, Item 2 ~ Item 3 of the Enforcement Order, Appended Table 2 of Article 30 of the Safety and Health Regulations)

Ethanol

Butanol

Methanol

Methyl ethyl ketone

Titanium(IV) oxide

Dangerous goods and hazardous goods whose names, etc. should be notified (Article 57-2, Paragraph 1 of the Act, Article 18-2, Item 2 ~ Item 3 of the Enforcement Order, Article 34-2 Appended Table 2 of the Safety and Health Regulations)

Ethanol(Ordinance on Industrial Safety and Health Number of Appended Tables 2:205) (Trade Secrets)

Butanol(Ordinance on Industrial Safety and Health Number of Appended Tables 2:1705) (Trade Secrets)

Methanol(Ordinance on Industrial Safety and Health Number of Appended Tables 2:2006) (Trade Secrets)

Methyl ethyl ketone(Ordinance on Industrial Safety and Health Number of Appended Tables 2:2034) (Trade Secrets)

Titanium(IV) oxide(Trade Secrets)

Industrial Safety and Health Act(Substances subject to labeling and notification ,Carcinogenic substances) (Implementation in Reiwa 9)

Dangerous goods and hazardous goods for which the name, etc. should be indicated (Article 57, Paragraph 1 of the Act, Article 18, Item 2 ~ Item 3 of the Enforcement Order, Appended Table 2 of Article 30 of the Safety and Health Regulations)

Ethanol

Butanol

Methanol

Methyl ethyl ketone

Titanium(IV) oxide

Dangerous goods and hazardous goods whose names, etc. should be notified (Article 57-2, Paragraph 1 of the Act, Article 18-2, Item 2 ~ Item 3 of the Enforcement Order, Article 34-2 Appended Table 2 of the Safety and Health Regulations)

Ethanol(Ordinance on Industrial Safety and Health Number of Appended Tables 2:205) (Trade Secrets)
 Butanol(Ordinance on Industrial Safety and Health Number of Appended Tables 2:1705) (Trade Secrets)
 Methanol(Ordinance on Industrial Safety and Health Number of Appended Tables 2:2006) (Trade Secrets)
 Methyl ethyl ketone (Ordinance on Industrial Safety and Health Number of Appended Tables 2:2034) (Trade Secrets)

Titanium(IV) oxide(Trade Secrets)

Poisonous and Deleterious Substances Control Act
 Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

Not applicable

Not applicable

Act on the Regulation of Manufacture and Evaluation of Chemical Substances

Priority Assessment Chemical Substances(Article 2 part 5)

Fire Service Act

Hazardous Materials Category IV inflammable liquids Class I petroleum non water-soluble Packing Group II

Water Pollution Prevention Act

Specified substances (article 2, paragraph 4 of the Act, article 3 of the Enforcement Ordinance)

Narcotics and Psychotropics Control Act

Narcotics and psychotropic raw materials (Article 2, Paragraph 1, Item 7, Appendix 4, Item 9 of the Law, Article 5 of the Designation Order)

Foreign Exchange and Foreign Trade Act

Import Trade Control Order Appended Table I part 16

Export approved goods: Narcotics and psychotropic raw materials (Article 48, Paragraph 3 of the Law; Article 2, Appendix 2, Paragraph 21-3 of the Export Order; Article 1 of Ministerial Ordinance No. 38 of June 19, 1992)

Export approved goods, specified hazardous waste, etc. (Article 48, Paragraph 3 of the Law, Article 2, Attached Table 2, Paragraph 35-2 of the Export Order)

Ship Safety Law
 Aviation Law

Flammable liquids(Order Article 3,Appended Table I)

Flammable liquids(Order Article 194,Appended Table I)

Section 16 – OTHER INFORMATION

Industrial Safety and Health Act

Second-class organic solvents, etc.contain more than 5% of Second-class organic solvents.

In the case where “composition and ingredient information” corresponds to the secret of the business, the description of the content is the conventional range display. However, it is possible to notify us separately by the method of information transmission agreed with the customer, such as a confidentiality agreement. For more information, please contact our sales representative.

2-butanone and methyl ethyl ketone, MEK and ethyl methyl ketone are the same substances.

Act on the Regulation of Manufacture and Evaluation of Chemical Substances

We have a Priority Assessment Chemical Substance posting threshold of 0.1% or more.

	The posting of a Priority Assessment Chemical Substance in SDS is as of November 2019 as an effort.
Foreign Exchange and Foreign Trade Act	In law, printing inks are not approved for export
Fire Service Act	The flash point of Class I petroleum is less than 21 ° c.
Poisonous and Deleterious Substances Control Act	The deleterious substances is only applicable to the material, and the mixture is non-applicable.
RoHS Specified Substance Concentration	Substances treated as equipment are exempt from this law. Cd<100ppm Pb, Hg, Cr(VI), PBB, PBDE, DEHP, DBP, BBP, DIBP <1000ppm
Allowable concentration Standards	TLV-TWA: Threshold Limit Values-Time Weighted Average STEL (Short Term Exposure Limit) JIS Z7253:2019
Cited Literature	1) International Chemical Safety Cards 2) National Institute of Technology and Evaluation (NITE), Japan 3) Site for Safe Workplace by Ministry of Health, Labour and Welfare, Japan 4) EZSDS(JCDB)
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 contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.