Safety Data Sheet (SDS)

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	Ink-K67/Ink- 1067K
Product Code	JP-K67/1067K
Reference Number	13
Name of Supplier	Inkminic Logo
Address	Technology (Guangzhou) CO., LTD
Phone Number	+86 020 32954560
Fax Number	
Mail Address	

Industrial ink jet printers

Section 2 - HAZARDS IDENTIFICATION

GHS Classification of the Chemical

Physicochemical

Health Hazards

Flammable liquids Category 2
Acute toxicity (Inhalation: vapour) Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Reproductive toxicity Category 1B
Specific target organ toxicity (single exposure) Category 1(visual organ systemic toxicity central nervous system)
Specific target organ toxicity (single exposure) Category 2(kidney)
Specific target organ toxicity (single exposure) Category 3(narcotic effect respiratory tract irritation)

Specific target organ toxicity (repeated exposure) Category 1(visual organ nervous system central nervous system)
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
H315 Causes skin irritation
H319 Causes serious eye irritation
H332 Harmful if inhaled
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
H360 May damage fertility or the unborn child
H370 Causes damage to visual organ、systemic toxicity、central nervous system
H371 May cause damage to kidney
H372 Causes damage to visual organ、nervous system、central nervous system through prolonged or repeated exposure

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 hand thoroughly after handling.(P264) Wash eye 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)
	Wear protective gloves/protective clothing/eye protection/face protection.(P280)
Response	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) If skin irritation occurs: Get medical advice/attention.(P332+P313) If eye irritation persists: Get medical advice/attention.(P337+P313) Take off contaminated clothing and wash it before reuse.(P362+P364) In case of fire: Use appropriate media to extinguish.(P370+P378)
Storage	Store in a well-ventilated place. Keep container tightly closed.(P403+P233) Store in a well-ventilated place. Keep cool.(P403+P235)
	Store locked up.(P405)
Disposal	Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or Mixture: Mixture

Chemical Name or Generic Name	Concentration or Its Ranges (%)	Formula	ENCS No./ISHL No.		CAS RN
			ENCS No	ISHL No	
Methyl ethyl ketone	60-70	CH3CH2COCH3	(2)-542	Registered	78-93-3
Methanol	10-20	CH3OH	(2)-201	Registered	67-56-1
Chromium and its compounds	5-10	-	Registered(Trade secret)	Registered(Trade secret)	-

Section 4 - FIRST AID MEASURES

Inhalation

Skin Contact

Eye Contact

Ingestion

Section 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Unsuitable Extinguishing Media

Specific Hazards in Case of Fire

Specific Fire Fighting

Special Protective Equipment and Precautions for Fire Fighters

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Environmental Precautions

Methods and Equipment for Containment and Cleaning Up

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

IF exposed or concerned: Call a doctor.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice and attention.
Specific treatment.
IF exposed or concerned: Call a doctor.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF exposed or concerned: Call a doctor.
Rinse mouth.
IF SWALLOWED: Call a doctor if you feel unwell.

IF exposed or concerned: Call a doctor.

Use extinguishing agent suitable for type of surrounding
fire.
When dust occurs, use dry sand.
Cylindric water.

Risk of producing harmful gases such as carbon monoxide. Avoid inhalation of smoke or gases.
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.
Use goggles in combination with dust mask, and another
protections as appropriate to situation.

Use goggles in combination with dust mask, and another
protections as appropriate to situation.

Large spills :Evacuate area.
Ensure adequate ventilation.
Do not discharge into the drains, surface waters or ground water directly.

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	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.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

	Japan Administration Level	Exposure Limits (Japan Society for Occupational Health)	Exposure Limits (ACGIH)
Methanol	200ppm	200ppm(260mg/m3)(skin)	TWA 200 ppm, STEL 250 ppm (Skin)
Methyl ethyl ketone	200ppm	200ppm(590mg/m3)	TWA 200 ppm, STEL 300 ppm
Chromium and its compounds	-	0.5mg/m3 as Cr3+	-

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 electrocity.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State		
Personal Protective Equipment	Respiratory Protection	If necessary, wear respiratory protection.
	Hand Protection	Wear protective gloves.
	Eye/Face Protection	Wear eye protection/face protection.
	Skin and Body Protection	Wear protective clothing.

Liquid

Form		
Colour		
Odour		
Melting Point/Freezing Point		
Boiling Point or Initial Boiling Point and Boiling Ranges		
Flammability		
Lower and Upper Explosion Limit / Flammability Limit	Lower Limit	
	Upper Limit	
Flash Point		
Auto-Ignition Temperature		
Decomposition Temperature		
pH		
Kinematic Viscosity		
Partition Coefficient : n-Octanol/Water		
Vapour Pressure		
Density and/or Relative Density		
Relative Gas Density		
Particle Characteristics		
as Methanol		
Melting Point/Freezing Point		
Boiling Point or Initial Boiling Point and Boiling Ranges		
Density and/or Relative Density		
as Methyl ethyl ketone		
Melting Point/Freezing Point		
Boiling Point or Initial Boiling Point and Boiling Ranges		
Density and/or Relative Density		

Section 10 - STABILITY AND REACTIVITY

Reactivity	
Chemical Stability	
Possibility of Hazardous Reaction	
Conditions to Avoid	
Incompatible Substances or Mixtures	
Hazardous Decomposition Products	
Other Data	

Section 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity	Oral	
	Dermal	
	Inhalation	

Liquid
Black
Solvent odor
-86.4℃ (as 2-Butanone)

79.6 ℃ (as 2-Butanone)

Flammability
1.8vol% (as 2-Butanone)

11.5vol% (as 2-Butanone)
-7℃ (Tag Closed Cup)
505℃ (as 2-Butanone)

No data available

No data available
3.2mm2/s
0.29(as 2-Butanone)

10.5kPa (20℃) (as 2-Butanone)
0.90

2.41 (Air = 1、as 2-Butanone)
No data available

-93.9℃

64.1℃，59.4℃(610mmHg)，39.9℃(260mmHg)， 15℃ (73mmHg)

0.866(-59℃/4℃)，0.81(0℃/4℃)，0.8006(10℃/4℃)，0.7910(20℃)，0.7964(15℃/15℃)

-86.4℃

79.6℃

0.8061

Does not react dangerously under nomal conditions.
Stable under normal conditions of use.
Flammable

There is a risk of explosion due to impacts, friction, flame and other source of ignition.
No data available

No data available

No data available

Classified as Not classified since ATE is more than 2000(mg/kg).
Classified as Not classified since ATE is over more than
2000(mg/kg).
(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 Eye Category 2A is more than 10%.
Respiratory Sensitization	Classification not possible since lots of the concentrations of unknown ingredients.
Skin Sensitization	Classification not possible since lots of the concentrations of unknown ingredients.
Germ Cell Mutagenicity	Classification not possible since lots of the concentrations of unknown ingredients.
Carcinogenicity	Classification not possible since lots of the concentrations of unknown ingredients.
Reproductive Toxicity	(Reproductive toxicity) Classified as Category 1B since one of the Category 1B ingredients is more than 0.3%. (Reproductive toxicity, effects on or via lactation) Unable to classify due to insufficient data.
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 1(visual organ) since one of the Category 1(visual organ) ingredients is more than 10%. Classified as Category 1(systemic toxicity) since one of the Category 1(systemic toxicity) ingredients is more than 10%. Classified as Category 1(central nervous system) since one of the Category 1(central nervous system) ingredients is more than 10%. Classified as Category 3(narcotic effect) since the sum of Category 3(narcotic effect) 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(visual organ) since one of the Category 1(visual organ) ingredients is more than 10%. Classified as Category 1(central nervous system) since one of the Category 1(central nervous system) ingredients is more than 10%.
Aspiration Hazard	Classified as Not classified since ingredients that has a hazard category are contained less than the concentration limit. Changed from Not Classified to Classification not possible since the sum of the concentrations of unknown ingredients is not less than 1%.

Section 12 - ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment, Short-Term (Acute)	Classification not possible since lots of the concentrations of unknown ingredients.
Hazardous to the Aquatic Environment, Long-Term (Chronic)	Classification not possible since lots of the concentrations of unknown ingredients.
Ecotoxicity	No data available
Persistence	No data available
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	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. 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. Do not let wastewater, etc. used for cleaning machinery or containers flow directly onto the groundor in to the culverts. For waste materials generated by wastewater treatment, incineration, etc. either carry out processingin accordance with the Waste Management and Public Cleaning Law and related laws and regulations, or commission a licensed vendor to do so. When incinerating of waste materials, etc., do not use an incinerator without cleaning equipment, as harmful gas will be generated. Clarify the contents of waste materials and entrust disposal to a waste disposal company.
Contaminated containe	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 Transported in Bulk According to MARPOL 73/78, Annex Ⅱ, the IBC Code	Not applicable
	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	Complies with the Fire Service Act.

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
Liquid Substance Transported in Bulk According to MARPOL 73/78, Annex Ⅱ, the IBC Code	Not applicable
Regulatory Information by Air	Conform to the provisions of the Civil Aeronautics Law.
UN No.	1210
Proper Shipping Name	PRINTING INK RELATED MATERIAL
Class	3
Packing Group	Ⅱ
Emergency Response Guide Number	130

Section 15 - REGULATORY INFORMATION

Industrial Safety and Health Act

Psychotropics Control Act

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

Act on the Regulation of Manufacture and Evaluation of Chemical Substances

Fire Service Act

Water Pollution Prevention Act

Narcotics and

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

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

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,
  Dichromic acid and its salts)(Number: 142)(1%-10%)
- Methanol(Number: 560)(10%-20%)
- Methyl ethyl ketone(Number: 570)(60%-70%)

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))

Not applicable

Not applicable

Priority Assessment Chemical Substances(Article 2 part 5)

Hazardous Materials Category IV inflammable liquids Class I
petroleums non water-soluble Packing GroupⅡ
Specified substances (article 2, paragraph 4 of the Act, article 3 of the Enforcement Ordinance)
raw materials for Narcotics or Psychotropics(Appended Table IV part 9, Order Article 4)

Foreign Exchange and Foreign Trade Act	Import Trade Control Order Appended Table I part 16 Import Trade Control Order Appended Table Ⅱ(Import Approval)
Ship Safety Law	Flammable liquids(Order Article 3,Appended Table I)
Aviation Law	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 "15. Applicable laws" column, the materials for which label and SDS will be mandated are also listed. (Substance without a decree number.) Reiwa based on 0111 No. 1 from the Kiankahatsu, on January 11, 2022.) 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 petroleums 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	Cd＜100ppm Pb, Hg, Cr(VI), PBB, PBDE, DEHP, DBP, BBP, DIBP ＜1000ppm
Allowable concentration	TLV-TWA: Threshold Limit Values-Time Weighted Average STEL (Short Term Exposure Limit
Standards	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.