

Safety Data Sheet (SDS)

Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	Ink-1311Y
Product Code	1311Y
Reference Number	53
Name of Supplier	Inkminic Logo Technology (Guangzhou) CO., LTD

Phone Number	+86 020-32954560;
Recommended Use	Industrial inkjet printers

Section 2 - HAZARDS IDENTIFICATION

GHS Classification of the Chemical

Physicochemical	Flammable liquids Category 2
Health Hazards	Acute toxicity (Inhalation: vapour) Category 4
	Skin corrosion/irritation Category 2
	Serious eye damage/eye irritation Category 2A
	Germ cell mutagenicity Category 2
	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 (nervous system)
	Other hazards than mentioned above are Not classified or Classification not possible.

GHS Label Elements

Pictograms



Signal Word

Hazard Statements

Danger
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
H341 Suspected of causing genetic defects
H371 May cause damage to kidney
H372 Causes damage to 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)

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)

Response

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)

Store in a well-ventilated place. Keep container tightly closed.(P403+P233)

Store in a well-ventilated place. Keep cool.(P403+P235)

Storage

Store locked up.(P405)

Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

Disposal

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	CH ₃ CH ₂ COCH ₃	(2)-542	Registered	78-93-3
Isopropyl alcohol	0.1-1	CH ₃ CH(OH)CH ₃	(2)-207	Registered	67-63-0

Section 4 - FIRST AID MEASURES

Handling

Technical 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

Prevention Measures for Secondary Accidents

Section 7 - HANDLING AND STORAGE

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

Keep away from sources of ignition and prepare extinguishing media.

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.
	Prevents Handling of Incompatible Substances or Mixtures	Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
	Conditions for Safe Storage	Refer to "Section 10 - STABILITY AND REACTIVITY".
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)
Isopropyl alcohol	200ppm	【 Maximum allowable concentration 】 400ppm (980mg/m3)	TWA 200 ppm, STEL 400 ppm
Methyl ethyl ketone	200ppm	200ppm(590mg/m3)	TWA 200 ppm, STEL 300 ppm

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.
Personal Protective Equipment	Respiratory Protection	Use explosion-proof electrical equipment and prevent from static electricity. 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.

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	1.8vol% (as 2-Butanone)

Flash Point
Auto-Ignition Temperature

Upper Limit

Section 11 - TOXICOLOGICAL INFORMATION Acute Toxicity Oral

Decomposition Temperature
pH
Kinematic Viscosity
Partition Coefficient : n-Octanol/Water
Vapour Pressure
Density and/or Relative Density
Relative Gas Density
Particle Characteristics

Dermal

Inhalation

as Isopropyl alcohol
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

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Section 10 - STABILITY AND REACTIVITY

Reactivity
Chemical Stability
Possibility of Hazardous Reaction
Conditions to Avoid

Incompatible Substances or Mixtures
Hazardous Decomposition Products
Other Data

11.5vol% (as 2-Butanone)
-6.1°C (Tag Closed Cup)
505°C (as 2-Butanone)

No data available

No data available
3.5mm²/s
0.29(as 2-Butanone)

10.5kPa (20°C) (as 2-Butanone)
0.91

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

82.4°C

0.7863(20°C,20°C)

-86.4°C

79.6°C

0.8061

Does not react dangerously under normal 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 Category 5 since ATE is more than 2000(mg/kg).

Classification not possible since lots of the concentrations of unknown ingredients.

Classification not possible since lots of the concentrations of unknown ingredients.

(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.

Classified as Category 2 since the sum of Category 2 ingredients is more than 10%.

Classified as Category 2A since the sum of 10×(Eye Category 1 + Skin Category 1) is more than 10%.

Respiratory Sensitization	Unable to classify due to insufficient data.
Skin Sensitization	Classification not possible since lots of the concentrations of unknown ingredients.
Germ Cell Mutagenicity	Classified as Category 2 since one of the Category 2 ingredients is more than 1.0%.
Carcinogenicity	Classification not possible since lots of the concentrations of unknown ingredients.
Reproductive Toxicity	(Reproductive toxicity) Classification not possible since lots of the concentrations of unknown ingredients. (Reproductive toxicity, effects on or via lactation)

Specific Target Organ Toxicity (Single Exposure)	Unable to classify due to insufficient data. Classified as Category 2(kidney) since one of the Category 2(kidney) 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%.
Aspiration Hazard	Unable to classify due to insufficient data.

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 ground or in to the culverts.

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.

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 container 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

Regulations in Japan

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

Regulatory Information by Road 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 Not applicable
Transported in Bulk
According to
MARPOL 73/78,
Annex II, the IBC
Code

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

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)

	<p>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)</p> <p>Propyl alcohol (Number: 494) (less than 5%) 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))</p>
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(From April 1, Reiwa 5)	<p>Not applicable</p> <p>Class 1 Designated Chemical Substances (Article 2, Paragraph 2 of the Law, Article 1, Appendix 1 of the Enforcement Ordinance)</p>
Act on the Regulation of Manufacture and Evaluation of Chemical Substances	<p>2-{{3-(Trimethoxysilyl)propoxy}methyl}oxirane (control number: 693) (2.0%) Priority Assessment Chemical Substances(Article 2 part 5)</p>
Fire Service Act	Hazardous Materials Category IV inflammable liquids Class I
Water Pollution Prevention Act	<p>petroleums non water-soluble Packing GroupII Hazardous substances (Article 2, Ordinance of Enforcement, article 2, Ordinance 1) that prescribe wastewater standards) 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) Import Trade Control Order Appended Table I part 16</p>
Narcotics and Psychotropics Control Act Foreign Exchange and Foreign Trade Act	Import Trade Control Order Appended Table II (Import Approval)
Ship Safety Law Aviation Law	<p>Flammable liquids(Order Article 3,Appended Table I) Flammable liquids(Order Article 194,Appended Table I)</p>

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 Kankohatsu, on January 11, 2022.)
	2-butanone and methyl ethyl ketone, MEK and ethyl methyl ketone are the same substances.
	Isopropyl alcohol belongs to propyl alcohol.
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	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.

