Issue 2016.03.18

Revision 2024.09.17

Safety Data Sheet (SDS)

Section 1 - CHEMICAL

Section 2 - HAZARDS IDENTIFICATION GHS Classification of the Chemical Physiocohemical Health Hazards Acute toxicity (Inhalation: vapour) Category 4 Skin corrosion/irritation Category 20 Reproductive toxicity Category 11 Specific target organ toxicity (single exposure) Category 2 (kidney) Specific target organ toxicity (single exposure) Category 2 (kidney) Specific target organ toxicity (single exposure) Category 2 (kidney) Specific target organ toxicity (single exposure) Category 3 (narcotic effect, respiratory tract irritation Category 1 (nervous system) GHS Label Elements Pictograms Signal Word Hazard Statements Signal Word Hazard Statemen	Section 1 - CHEMICALS AND C	Chemical Identifier Product Code Reference Number Name of Supplier Address	ION Ink-1126K 1126K 45 Hitachi Industrial Equipment Systems Co.,Ltd. 1-1 Higashitaga-cho 1-chome,Hitachi-shi, Ibaraki-ken, 316-8502 Japan IJP ink Group, Marking Systems and Hoist Systems Division +81-294-36-8682 +81-294-36-8682 +81-294-36-8682 Industrial ink jet printers If the product is to be used for applications other than those recommended, seek the judgment of an expert/chemical substance specialist, etc.
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 Reproductive toxicity (Category 1B 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 3 (narcotic effect, respiratory tract irritation) GHS Label Elements Pictograms Specific target organ toxicity (repeated exposure) Category 1 (nervous system) Other hazards than mentioned above are Not classified or Classification not possible. Other hazards than mentioned above are Not classified or Classification not possible. GHS Label Elements Pictograms Danger Hazard Statements H225 Highly flammable liquid and vapour H315 Causes skin irritation H319 Causes skin irritation H336 May cause drowsiness or dizziness H306 May damage fertility or the unborn child H317 May cause damage to nervous system through prolonged or repeated exposure Precautionary Statements Precoautionary Statements Prevention Othan special instructions before use.(P201) Do no thandle until all safety precautions have been O			
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Do not handle until all safety precautions have been		Prevention	Obtain special instructions before use.(P201)
			Do not handle until all safety precautions have been

		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)
tion 3 - COMPOSITION / INF Distinction of Substance or	ORMATION ON ING	REDIENTS Mixture
Mixture		

	Ranges (wt%)		ENCS No.	ISHL No.	
Methyl ethyl ketone	75-less than 85	CH3CH2CO CH3	(2)-542	Registered	78-93-3
ction 4 – FIRST AID MEASUI	RES				
Inhalation					keep at rest in a
		position com	nfortable for	breathing.	
		•		I: Call a docto	
Skin Contact					ff immediately all water/shower.
		IF ON SKIN:	Wash with p	elenty of soap	and water.
		If skin irritat attention.	ion occurs:	Get medical a	advice and
		Specific trea	atment.		
		IF exposed o	or concerned	l: Call a docto	r.
Eye Contact			move contac	-	er for several esent and easy to
		If eye irritati	on persists:	Get medical a	advice/attention.
		IF exposed o	or concerned	l: Call a docto	ır.
Ingestion		Rinse mouth	I.		
		IF SWALLO	WED: Call a d	doctor if you f	feel unwell.
		IF exposed o	or concerned	l: Call a docto	r.
ction 5 – FIRE FIGHTING ME		Llee extingui	abing agent.	ouitable for tu	no of our mounding
Suitable Extinguishing Media	a	fire.		-	pe of surrounding
Unsuitable Extinguishing Media		When dust o Cylindric wa		ry sand.	
Specific Hazards in Case of	F		-	I gases such	
Fire		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			
			-	aff from enter	ing the area
		around the f			
		Keep unnece	• • •	•	
Special Protective Equipment and Precautions					mask, and anothe
for Fire Fighters		protections	as appropri	iate to situatio	ori.
ction 6 - ACCIDENTAL RELE	EASE MEASURES				
Personal Precautions, Protective Equipment and		0.00			mask, and anothe
Protective Equipment and Emergency Procedures		protections	as appropria	te to situatior	ı.
		Large spills :	Evacuate ar	ea.	
		Ensure adeq			
Environmental Precautions		Do not disch ground wate	-	e drains, surfa	ace waters or
Methods and Equipment for		No informati	-		
Containment and Cleaning Up					
Prevention Measures for Secondary Accidents		Keep away f extinguishing		of ignition an	id prepare
ction 7 - HANDLING AND ST	TORAGE				
Handling	Technical Measures				cessary personal
		protective e	quipment as	described in	"Section 8 –
		EXPOSURE		/ PERSONA	L PROTECTION

	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.
Handling	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".
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

Storage

	Japan Administration Level	Exposure Limits (Japan Society for Occupational Health)		TLVs (ACGIH) I	
Methyl ethyl ketone	200ppm	200ppm(59	0mg/m3)	TWA 200 ppm, STEL 300 ppm	
	Concentration standar	Concentration standards specified by the Minister of Heal			
	Concentration standard value for 8-hours exposure		Concentration standard value for short- term exposure/ceiling		
Methyl ethyl ketone	Not listed		Not listed		
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.			
		•	ion-proof elec electrocity.	ctrical equipment and prevent	
Personal Protective Equipment	Respiratory Protection			iate respiratory protective assessments and other	
	Hand Protection	Wear appropriate protective equipment, including impervious or impermeable safety gloves, as circumstances dictate.			
		Select and wear appropriate safety gloves based on r 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.
Section 9 - PHYSICAL AND CHEMICAL PROPERTIES Physical State		Liquid
Form		Liquid
Colour Odour		Black 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)
Flash Point	Upper Limit	11.5vol% (as 2−Butanone) −7.3°C (Tag Closed Cup)
Auto-Ignition Temperature		505°C (as 2−Butanone)
Decomposition Temperature	•	No data available
рH		No data available
Kinematic Viscosity		3mm2/s
Solubility Partition Coefficient : n-		water: 29g/100mL (20°C) (as 2-Butanone) 0.29(as 2-Butanone)
Octanol/Water		0.29(as 2-Butanone)
Vapour Pressure		10.5kPa (20°C) (as 2-Butanone)
Density and/or Relative Density		0.86
Relative Gas Density		2.41 (Air=1, as 2-Butanone)
Particle Characteristics		No data available
as Methyl ethyl ketone		
Melting Point/Freezing Point		−86.4°C
Boiling Point or Initial Boiling Point and Boiling Ranges		79.6°C
Density and/or Relative Density		0.8061
Section 10 – STABILITY AND R Reactivity	EACTIVITY	Dees not voort devrevender under normel oppditiens
Chemical Stability		Does not react dangerously under nomal conditions. Stable under normal conditions of use.
Possibility of Hazardous		Flammable
Reaction		
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		No data available
Products		
Other Data		No data available
Section 11 - TOXICOLOGICAL	INFORMATION	
Acute Toxicity	Oral	Classification not possible since lots of the concentrations of unknown ingredients.
	Dermal	Classification not possible since lots of the concentrations of unknown ingredients.
	Inhalation	(gas)
		\ <u>0</u> /

Does not fall under gas based on GHS definitions.

(vapour)
Classified as Category 4 since ATE is 2500 to 20000(ppmV).
(dust and mist)
Unable to classify due to insufficient data.
Classified as Category 2 since the sum of Category 2 ingredients is more than 10%.
Classified as Category 2A since the sum of Eye Category 2A is more than 10%.

Unable to classify due to insufficient data.

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

Unable to classify due to insufficient data. Unable to classify due to insufficient data. (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. 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%.

Classified as Category 1(nervous system) since one of the Category 1(nervous system) ingredients is more than 10%.

Unable to classify due to insufficient data.

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

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

No data available No data available No data available

No data available Unable to classify due to insufficient data.

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.

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.

Serious Eye Damage/Eye Irritation Respiratory Sensitization

Skin Sensitization

Germ Cell Mutagenicity Carcinogenicity Reproductive Toxicity

Specific Target Organ Toxicity (Single Exposure)

Specific Target Organ Toxicity (Repeated Exposure) Aspiration Hazard

Section 12 - ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment, Short-Term (Acute) Hazardous to the Aquatic Environment, Long-Term (Chronic)

Ecotoxicity Persistence Bioaccumulative Potential

Mobility in Soil Hazardous to the Ozone Layer

Section 13 - DISPOSAL CONSIDERATIONS Residual waste

		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 containers and packaging	Empty containers should be treated as industrial wastes and not allowed to contain waste.
Section 14 - TRANSPORT INFO	RMATION	
International Regulations		Conform to the provisions of IMO.
		1210 PRINTING INK RELATED MATERIAL
	Class	3 T
	Packing Group Marine Pollutant	I 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. Proper Shipping Name Class	1210 PRINTING INK RELATED MATERIAL 3
Regulations in Japan	Packing Group Regulatory Information by Road or Rail	II Complies with the Fire Service Act.
	Regulatory Information by Sea	Conform to the provisions of the Ship Safety Law.
		1210 PRINTING INK RELATED MATERIAL
	Class Packing Group	3 Ц
	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. Proper Shipping Name	1210 PRINTING INK RELATED MATERIAL
	Class	3
Emergency Response Guide Number	Packing Group	Ш 130
Section 15 - REGULATORY INFO	ORMATION	
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)

(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)

Methyl ethyl ketone (Number: 570) (Trade Secrets) (Number:No Number))

(Number:No Number)) 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., 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)

Methyl ethyl ketone Not applicable

Not applicable

Mmonitoring chemical substances (Article 2, Paragraph 4 of the Act)

Priority Assessment Chemical Substances(Article 2 part 5) Hazardous Materials Category IV inflammable liquids Class I petroleums non water-soluble Packing Group II 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

Import Trade Control Order Appended Table ${\ensuremath{\mathbb I}}$ (Import Approval)

Flammable liquids(Order Article 3,Appended Table I) Flammable liquids(Order Article 194,Appended Table I)

Industrial Safety and

Health Act

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

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.

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 Psychotropics Control Act Foreign Exchange and Foreign Trade Act

Ship Safety Law Aviation Law

Section 16 - OTHER INFORMATION

	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.
Act on the Regulation of Manufacture and Evaluation of Chemical	2-butanone and methyl ethyl ketone, MEK and ethyl methyl ketone are the same substances. We have a Priority Assessment Chemical Substance posting threshold of 0.1% or more.
Substances	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 Poisonous and Deleterious Substances Control Act	The flash point of Class I petroleums is less than 21 $^\circ$ c. 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	TLV-TWA:Threshold Limit Values-Time Weighted Average STEL (Short Term Exposure Limit
Standards Cited Literature	JIS Z7253:2019 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, Japan4) 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.