

Issue 2005.08.31  
Revision 2024.10.01

Safety Data Sheet (SDS)


Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

|                        |  |
|------------------------|--|
| Chemical Identifier    | Ink-1027K/Ink-K27  |
| Product Code           | 1027K/JP-K27   |
| Reference Number       | 2  |
| Name of Supplier       | Hitachi Industrial Equipment Systems Co.,Ltd.  |
| Address                | 1-1 Higashitaga-cho 1-chome,Hitachi-shi, Ibaraki-ken,<br>316-8502 Japan  |
| Department in Charge   | IJP 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 (Inhalation: vapour) Category 4<br>Skin corrosion/irritation Category 2<br>Serious eye damage/eye irritation Category 2A<br>Reproductive toxicity Category 1B<br>Specific target organ toxicity (single exposure) Category 1 (visual organ, kidney, central nervous system, systemic toxicity)<br>Specific target organ toxicity (single exposure) Category 3 (narcotic effect, respiratory tract irritation)<br><br>Specific target organ toxicity (repeated exposure) Category 1 (visual organ, nervous system, central nervous system)<br><br>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<br>H315 Causes skin irritation<br>H319 Causes serious eye irritation<br>H332 Harmful if inhaled<br>H335 May cause respiratory irritation<br>H336 May cause drowsiness or dizziness<br>H360 May damage fertility or the unborn child<br>H370 Causes damage to visual organ, kidney, central nervous system, systemic toxicity<br>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)   |

|          |   |
|----------|---|
|          | <p>Do not handle until all safety precautions have been read and understood.(P202)</p> <p>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.(P210)</p> <p>Keep container tightly closed.(P233)</p> <p>Ground and bond container and receiving equipment.(P240)</p> <p>Use explosion-proof electrical, ventilating and lighting equipment.(P241)</p> <p>Use non-sparking tools.(P242)</p> <p>Take action to prevent static discharges.(P243)</p> <p>Do not breathe dust/fume/gas/mist/vapours/spray.(P260)</p> <p>Avoid breathing dust/fume/gas/mist/vapours/spray.(P261)</p> <p>Wash hand thoroughly after handling.(P264)</p> <p>Wash eye thoroughly after handling.(P264)</p> <p>Do not eat, drink or smoke when using this product.(P270)</p> <p>Use only outdoors or in a well-ventilated area.(P271)</p> <p>Wear protective gloves/protective clothing/eye protection/face protection.(P280)</p>                         |
| Response | <p>IF ON SKIN: Wash with plenty of soap and water.(P302+P352)</p> <p>IF ON SKIN or hair: Take off immediately all contaminated clothing. Rinse skin with water or shower.(P303+P361+P353)</p> <p>IF INHALED: Remove person to fresh air and keep comfortable for breathing.(P304+P340)</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)</p> <p>IF exposed or concerned: Call a doctor.(P308+P311)</p> <p>IF exposed or concerned: Get medical advice/attention.(P308+P313)</p> <p>Call a doctor if you feel unwell.(P312)</p> <p>Get medical advice and attention if you feel unwell.(P314)</p> <p>Specific treatment.(P321)</p> <p>If skin irritation occurs: Get medical advice/attention.(P332+P313)</p> <p>If eye irritation persists: Get medical advice/attention.(P337+P313)</p> <p>Take off contaminated clothing and wash it before reuse.(P362+P364)</p> |
| Storage  | <p>In case of fire: Use appropriate media to extinguish.(P370+P378)</p> <p>Store in a well-ventilated place. Keep container tightly closed.(P403+P233)</p> <p>Store in a well-ventilated place. Keep cool.(P403+P235)</p>   |
| Disposal | <p>Store locked up.(P405)</p> <p>Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)</p>   |

### Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

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.

## Distinction of Substance or Mixture

## Mixture

| Chemical Name or Generic Name | Concentration or Its Ranges (wt%) | Formula   | ENCS No./ISHL No.        |                          | CAS RN       |
|-------------------------------|-----------------------------------|---|--------------------------|--------------------------|--------------|
|                               |                                   |   | ENCS No.                 | ISHL No.                 |              |
| Methyl ethyl ketone           | 55-65                             | CH <sub>3</sub> CH <sub>2</sub> CO<br>CH <sub>3</sub> | (2)-542                  | Registered               | 78-93-3      |
| Chromium and its compounds    | 5-10                              | -   | Registered(Trade secret) | Registered(Trade secret) | Trade secret |
| Methanol                      | 5-15                              | CH <sub>3</sub> OH                                    | (2)-201                  | Registered               | 67-56-1      |

## Section 4 – FIRST AID MEASURES

## Inhalation

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

IF exposed or concerned: Call a doctor.

## Skin Contact

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.

## Eye Contact

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.

## Ingestion

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.

## Section 5 – FIRE FIGHTING MEASURES

## Suitable Extinguishing Media

Use extinguishing agent suitable for type of surrounding fire.

When dust occurs, use dry sand.

Cylindric water.

## Unsuitable Extinguishing Media

## Specific Hazards in Case of Fire

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.

## 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.

Large spills :Evacuate area.

Ensure adequate ventilation.

## Environmental Precautions

Do not discharge into the drains, surface waters or ground water directly.

## Methods and Equipment for Containment and Cleaning Up

small spill : absorb with material such as non-combustible materialwash thoroughly after handling

Large spills: Dike spills and dispose of in safe area.

Prevention Measures for  
Secondary Accidents

Keep away from sources of ignition and prepare extinguishing media.  
Risk of slipping. Spilled material forms slippery floor.  
  
Do not recklessly walk on the spillage.

## 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) | TLVs (ACGIH)                     |
|----------------------------|----------------------------|---|----------------------------------|
| Methyl ethyl ketone        | 200ppm                     | 200ppm(590mg/m <sup>3</sup> )                           | TWA 200 ppm, STEL 300 ppm        |
| Chromium and its compounds | Not listed                 | 0.5mg/m <sup>3</sup> as Cr <sup>3+</sup>                | Not listed                       |
| Methanol                   | 200ppm                     | 200ppm(260mg/m <sup>3</sup> )(skin )                    | TWA 200 ppm, STEL 250 ppm (Skin) |

|                            | 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   |
| Chromium and its compounds | Not listed  | Not listed   |
| Methanol                   | 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.

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.<br><br>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.<br><br>Select and wear appropriate protective clothing and footwear based on risk assessments and other measures. |

#### Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

|   |             |   |
|---|-------------|---|
| Section 9: PHYSICAL AND CHEMICAL PROPERTIES               |             |   |
| Physical State  |             | Liquid  |
| Form  |             | Liquid  |
| Colour  |             | Black   |
| Odour   |             | Solvent odor                                      |
| Melting Point/Freezing Point                              |             | No data available                                 |
| Boiling Point or Initial Boiling Point and Boiling Ranges |             | 79.6 °C   |
| Flammability  |             | No data available                                 |
| Lower and Upper Explosion Limit / Flammability Limit      | Lower Limit | No data available                                 |
|   | Upper Limit | No data available                                 |
| Flash Point   |             | -6°C (Tag Closed Cup)                             |
| Auto-Ignition Temperature                                 |             | No data available                                 |
| Decomposition Temperature                                 |             | No data available                                 |
| pH  |             | No data available                                 |
| Kinematic Viscosity                                       |             | No data available                                 |
| Solubility  |             | Insoluble in the following materials: Cold water. |
| Partition Coefficient : n-Octanol/Water                   |             | No data available                                 |
| Vapour Pressure   |             | No data available                                 |
| Density and/or Relative Density                           |             | 0.894   |
| Relative Gas Density                                      |             | No data available                                 |
| 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  |
| as Methanol   |             |   |

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|   |  |
|---|--|
| Melting Point/Freezing Point                              | -93.9°C  |
| Boiling Point or Initial Boiling Point and Boiling Ranges | 64.1°C, 59.4°C(610mmHg), 39.9°C(260mmHg), 15°C (73mmHg)                            |
| Density and/or Relative Density                           | 0.866(-59°C/4°C), 0.81(0°C/4°C), 0.8006(10°C/4°C), 0.7910(20°C), 0.7964(15°C/15°C) |

## 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 Not classified since ATE is over more than 2000(mg/kg).  |
|  | Dermal     | Classified as Not classified since ATE is over more than 2000(mg/kg).  |
|  | Inhalation | (gas)<br>Does not fall under gas based on GHS definitions.   |
| Skin Corrosion/Irritation                        |            | (vapour)<br>Classified as Category 4 since ATE is 2500 to (dust and mist)<br>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 2 ingredients is more than 10%.  |
| Serious Eye Damage/Eye Irritation                |            | Classification not possible since lots of the concentrations of unknown ingredients.   |
| Respiratory Sensitization                        |            |  |
| 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                                  |            | Unable to classify due to insufficient data.   |
| Reproductive Toxicity                            |            | (Reproductive toxicity)<br>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 1(visual organ) since one of the Category 1(visual organ) ingredients is more than 10%.                     |
|  |            | Classified as Category 1(kidney) since one of the Category 1(kidney) 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 1(systemic toxicity) since one of the Category 1(systemic toxicity) ingredients is more than 10%.           |

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Specific Target Organ  
Toxicity (Repeated  
Exposure)

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(visual organ) since one of the Category 1(visual organ) ingredients is more than 10%.

Aspiration Hazard

Classified as Category 1(nervous system) since one of the Category 1(nervous system) 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 Classification not possible since the kinematic viscosity is unknown.

## 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  
Persistence  
Bioaccumulative Potential

No data available

No data available

No data available

Mobility in Soil  
Hazardous to the Ozone  
Layer

No data available

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.

Contaminated  
containers and  
packaging

Clarify the contents of waste materials and entrust disposal to a waste disposal company.

Empty containers should be treated as industrial wastes and not allowed to contain waste.

## Section 14 – TRANSPORT INFORMATION

International Regulations

Regulatory Information Conform to the provisions of IMO.  
by Sea

UN No. 1210

Proper Shipping Name PRINTING INK RELATED MATERIAL

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.

|                                     |                        |   |
|-------------------------------------|------------------------|---|
|                                     | 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 | Conform to the provisions of ICAO/IATA.                               |
|                                     | by Air                 |   |
|                                     | UN No.                 | 1210  |
|                                     | Proper Shipping Name   | PRINTING INK RELATED MATERIAL   |
|                                     | Class                  | 3   |
|                                     | Packing Group          | II  |
| Regulations in Japan                | Regulatory Information | Complies with the Fire Service Act.                                   |
|                                     | by Road or Rail        |   |
|                                     | Regulatory Information | Conform to the provisions of the Ship Safety Law.                     |
|                                     | by Sea                 |   |
|                                     | 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 | 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        |                        | Ordinance on the Prevention of Organic Solvent Poisoning Paragraph    |
| Act                                 |                        | 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 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 and                |
|                                     |                        | chromate and dichromate and dichromate) (Trade Secrets)               |
|                                     |                        | 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)   |
|                                     |                        | Methanol(Number:560) (Trade Secrets)                                  |

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|   |   |
|---|---|
|   | Methyl ethyl ketone (Number: 570) (Trade Secrets)<br>Materials for special medical examinations and current handling workers (Industrial Safety and Health Act 66 2 and Order for Enforcement of Industrial Safety and Health Act Article 22 (ii))  |
|   | 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)  |
| Industrial Safety and Health Act (after 2024/4/1)   | Methanol<br>Methyl ethyl ketone<br>Dangerous or Harmful Substances Subject to Be Indicated their Names, etc.<br>(Article 57 part 1, Order Article 18 part 1 and 2, Attached Table 9)  |
|   | Hazardous Substances to be notified in terms of Whose Names, etc.<br>(Article 57 part 2, Order Article 18 part 2-1 and part 2, Attached Table 9)  |
| Poisonous and Deleterious Substances Control Act  | Chromium and its compounds (excluding hexavalent chromium compounds) (Trade Secrets)<br>Not applicable  |
| Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof | Not applicable  |
| 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   | 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<br><br>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.<br><br>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 Kankahatsu, on January 11, 2022.)<br><br>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 Substances  | 2-butanone and methyl ethyl ketone, MEK and ethyl methyl ketone are the same substances.<br>We have a Priority Assessment Chemical Substance posting threshold of 0.1% or more.   |

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.

|  |   |
|--|---|
|  | 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           | Substances treated as equipment are exempt from this law.<br>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<br>JIS Z7253:2019   |
| Cited Literature                                 | 1) International Chemical Safety Cards<br>2) National Institute of Technology and Evaluation (NITE), Japan<br><br>3) Site for Safe Workplace by Ministry of Health, Labour and Welfare, Japan<br>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. |