Issue 2008.06.12

Revision 2024.09.17

Safety Data Sheet (SDS)

Section 1 - CHEMIC

| | | ION |
|--|----------------------|--|
| Section 1 - CHEMICALS AND (| | |
| | Chemical Identifier | Ink-K88/Ink-1088K |
| | Product Code | 1088K/JP-K88 |
| | Reference Number | 23 |
| | Name of Supplier | Hitachi Industrial Equipment Systems Co.,Ltd. |
| | Address | 1-1 Higashitaga-cho 1-chome,Hitachi-shi, Ibaraki-ken, |
| | | 316-8502 Japan |
| | Department in Charge | 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 | +81-294-36-8682 |
| | Number | |
| | 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 IDENTIF GHS Classification of the C | | |
| | Physicochemical | Flammable liquids Category 2 |
| | Health Hazards | Acute toxicity (Inhalation: vapour) Category 4 |
| | Tiourdin Huzurus | Skin corrosion/irritation Category 2 |
| | | Serious eye damage/eye irritation Category 2A |
| | | |
| | | Carcinogenicity Category 1A |
| | | Reproductive toxicity Category 1A |
| | | Specific target organ toxicity (single exposure) Category 2(kidney) |
| | | Specific target organ toxicity (single exposure) Category |
| | | 3(narcotic effect, respiratory tract irritation) |
| | | Specific target organ toxicity (repeated exposure) |
| | | Category 1 (liver, nervous system) |
| | | Specific target organ toxicity (repeated exposure) Category 2(central nervous system) |
| | | Other hazards than mentioned above are Not classified or Classification not possible. |
| GHS Label Elements | | |
| | Pictograms | |
| | 1 10108.41110 | |
| | | |
| | | |
| | | |
| | | v v v |
| | 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 |
| | | H350 May cause cancer |
| | | |
| | | H360 May damage fertility or the unborn child |
| | | H371 May cause damage to kidney |
| | | H372 Causes damage to liver, nervous system through |
| | | |

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.

prolonged or repeated exposure

through prolonged or repeated exposure

H373 May cause damage to central nervous system

| 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

| Chemical Name or Generic Name | Concentration or Its Ranges (wt%) | Formula | ENCS No./I ENCS No. | SHL No. ISHL No. | CAS RN |
|---|--------------------------------------|--|------------------------|---------------------------------|-----------------------|
| Methyl ethyl ketone | 60-70 | CH3CH2CO CH3 | | Registered | 78-93-3 |
| Ethanol | 20-30 | СНЗСН2ОН | (2)-202 | Registered | 64-17-5 |
| Chromium and its | 3–5 | - | - | Registered(| - |
| compounds | | | Trade secret) | Trade secret) | |
| tion 4 – FIRST AID MEASURI | | | | | • |
| Inhalation | -0 | IF INHALED: position com | | | keep at rest in |
| Skin Contact | | IF exposed or concerned: Call a doctor. IF ON SKIN (or hair): Remove/Take off immediately a contaminated clothing. Rinse skin with water/shower | | | |
| | | IF ON SKIN: | Wash with p | lenty of soap | and water. |
| | | If skin irritati attention. | ion occurs: | Get medical a | advice and |
| | | Specific trea | | 0.11 | |
| Eye Contact | | IF exposed or concerned: Call a doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy do. Continue rinsing. | | | |
| | | If eye irritati | on persists: | Get medical a | advice/attentio |
| Ingestion | | IF exposed or concerned: Call a doctor. Rinse mouth. IF SWALLOWED: Call a doctor if you feel unwell. | | | |
| | | IF exposed c | or concerned | : Call a docto | ır. |
| tion 5 – FIRE FIGHTING MEA | SURES | | | | |
| Suitable Extinguishing Media | | fire. | | - | pe of surround |
| Unsuitable Extinguishing Media | | When dust o Cylindric wat | | ry sand. | |
| Specific Hazards in Case of Fire | | Risk of producing harmful gases such as carbon monoxide. Avoid inhalation of smoke or gases. | | | |
| Specific Fire Fighting | | Fight fire from upwind position if possible Keep away from sources of ignition and use appropria extinguishing media. | | | |
| | | around the f | ire. | aff from enter | ing the area |
| Special Protective Equipment and Precautions for Fire Fighters | | | in combinati | • | mask, and anot on. |
| tion 6 – ACCIDENTAL RELEA | ASE MEASURES | | | | |
| Personal Precautions, Protective Equipment and Emergency Procedures | | 0.00 | | on with dust te to situatior | mask, and anot า. |
| Environmental Precautions | | Large spills : Ensure adeq | uate ventilat | ion. | and waters as |
| | | ground wate | r directly. | e arains, surta | ace waters or |
| Methods and Equipment for Containment and Cleaning Up | | No informati | on available | | |

| Prevention Measures for Secondary Accidents | | Keep away from sources of ignition and prepare extinguishing media. |
|--|---|--|
| Section 7 - HANDLING AND 3 Handling | STORAGE 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. |
| | Prevents Handling of | Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Refer to "Section 10 - STABILITY AND REACTIVITY". |
| | Incompatible Substances or Mixtures | |
| Storage | Conditions for Safe Storage | Refer to "Section 10 - STABILITY AND REACTIVITY". |
| | 5 | Store locked up. Store container tightly closed in well-ventilated place. |

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

| | Japan Administration Level | | imits (Japan Occupational | TLVs (ACGIH) |
|-------------------------------|---|-------------|------------------------------|---|
| Methyl ethyl ketone | 200ppm | 200ppm(59 | Omg∕m3) | TWA 200 ppm, STEL 300 ppm |
| Ethanol | Not listed | Not listed | | TWA -, STEL 1000 ppm |
| Chromium and its compounds | Not listed | 0.5mg/m3 a | as Cr3+ | Not listed |
| | Concentration standards specified by th | | by the Ministe | r of Health, Labour and Welfare |
| | Concentration standar 8-hours exposure | d value for | Concentration | on standard value for short- ire/ceiling |
| Methyl ethyl ketone | Not listed | | Not listed | |
| Ethanol | Not listed | | Not listed | |
| Chromium and its compounds | 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 electrocity.

| | Personal Protective Equipment | Respiratory Protection | Select and wear appropriate respiratory protective equipment based on risk assessments and other measures. |
|-----|---|-----------------------------|--|
| | | Hand Protection | Wear appropriate protective equipment, including impervious or impermeable safety gloves, as circumstances dictate. |
| | | | Select and wear appropriate safety gloves based on risk assessments and other measures. |
| | | Eye/Face Protection | Select and wear appropriate face and eye protection based on risk assessments and other measures. |
| | | Skin and Body Protection | Wear appropriate protective equipment such as impervious and impermeable protective clothing and footwear, as circumstances dictate. |
| | | | Select and wear appropriate protective clothing and footwear based on risk assessments and other measures. |
| Sec | tion 9 - PHYSICAL AND CH | EMICAL PROPERTIES | |
| | Physical State | | Liquid |
| | Form | | Liquid |
| | Colour | | Black |
| | Odour | | Solvent odor |
| | Melting Point/Freezing Point | | −86.4°C (as 2−Butanone) |
| | Boiling Point or Initial Boiling Point and Boiling Ranges | | 79.6 °C (as 2-Butanone) |
| | Flammability | | Flammability |
| | Lower and Upper Explosion Limit / Flammability Limit | Lower Limit | 1.8vol‰ (as 2−Butanone) |
| | | Upper Limit | 11.5vol% (as 2-Butanone) |
| | Flash Point | | -4.6°C (Tag Closed Cup) |
| | Auto-Ignition Temperature | | 505°C (as 2-Butanone) |
| | D | | No data available |
| | Decomposition Temperature | | No data available |
| | pН | | No data available |
| | Kinematic Viscosity | | 3.2mm2/s |
| | Solubility | | water: 29g/100mL (20°C) (as 2-Butanone) |
| | Partition Coefficient : n- Octanol/Water | | 0.29(as 2-Butanone) |
| | Vapour Pressure | | 10.5kPa (20°C) (as 2-Butanone) |
| | Density and/or Relative | | 0.84 |
| | Density | | |
| | 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 |
| | as Ethanol Boiling Point or Initial Boiling Point and Boiling Ranges | | 78.3°C |
| | Density and/or Relative Density | | 0.7892(20°C, 4°C) |
| | | | |

Section 10 - STABILITY AND REACTIVITY Does not react dangerously under nomal conditions. Reactivity Chemical Stability 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 No data available Mixtures 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) 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. Skin Corrosion/Irritation Classified as Category 2 since the sum of Category 2 ingredients is more than 10%. Serious Eye Damage/Eye Classified as Category 2A since the sum of Eye Irritation Category 2A 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 Unable to classify due to insufficient data. Classified as Category 1A since one of the Category 1A Carcinogenicity ingredients is more than 0.1%. **Reproductive Toxicity** (Reproductive toxicity) Classified as Category 1A since one of the Category 1A ingredients is more than 0.3%. (Reproductive toxicity, effects on or via lactation) Unable to classify due to insufficient data. Specific Target Organ Classified as Category 2(kidney) since one of the Toxicity (Single Exposure) 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 Classified as Category 1(nervous system) since one of Toxicity (Repeated the Category 1(nervous system) ingredients is more Exposure) than 10%. Classified as Category 1(liver) since one of the Category 1(liver) ingredients is more than 10%. Classified as Category 2(central nervous system) since one of the Category 2(central nervous system) ingredients is more than 10%. Aspiration Hazard Unable to classify due to insufficient data.

| Section 12 - ECOLOGICAL INFORMATION | | | | |
|-------------------------------------|---------------------------|--------------------------------|---|--|
| | Hazardous to the Aquatic | | Classification not possible since lots of the | |
| | Environment, Short-Term | | concentrations of unknown ingredients. | |
| | (Acute) | | | |
| | Hazardous to the Aquatic | | Classification not possible since lots of the | |
| | Environment, Long-Term | | concentrations of unknown ingredients. | |
| | (Chronic) | | | |
| | Ecotoxicity | | No data available | |
| | Persistence | | No data available | |
| | Bioaccumulative Potential | | No data available | |
| | | | | |
| | Mobility in Soil | | No data available | |
| | Hazardous to the Ozone | | Unable to classify due to insufficient data. | |
| | Layer | | | |
| | | | | |
| Sec | ction 13 - DISPOSAL CONSI | DERATIONS | | |
| | | 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 | |
| | | O antania ata d | waste disposal company. | |
| | | Contaminated containers and | Empty containers should be treated as industrial wastes and not allowed to contain waste. | |
| | | packaging | allowed to contain waste. | |
| | | puoliuging | | |
| Sec | ction 14 - TRANSPORT INFO | RMATION | | |
| 000 | International Regulations | | Conform to the provisions of IMO. | |
| | | by Sea | | |
| | | UN No. | 1210 | |
| | | | PRINTING INK RELATED MATERIAL | |
| | | Class | 3 | |
| | | Packing Group | Ĩ | |
| | | Marine Pollutant | Not applicable | |
| | | Liquid Substance | Not applicable | |
| | | Transported in Bulk | | |
| | | According to MARPOL | | |
| | | 73/78, Annex II, the | | |
| | | IBC Code | | |
| | | | | |
| | | Domulatory Informer' | Conform to the provisions of ICAO /IATA | |
| | | Regulatory Information by Air | Conform to the provisions of ICAO/IATA. | |
| | | - | 1010 | |
| | | UN No. | 1210 DRINTING INK DELATED MATERIAL | |
| | | | PRINTING INK RELATED MATERIAL | |
| | | Class | 3 | |
| | | Packing Group | | |
| | Regulations in Japan | | Complies with the Fire Service Act. | |
| | | by Road or Rail | | |
| | | | | |

| | Regulatory Information by Sea | Conform to the provisions of the Ship Safety Law. |
|-------------------------------------|--|--|
| | UN No. Proper Shipping Name | 1210 PRINTING INK RELATED MATERIAL |
| | Class Packing Group | 3 Ц |
| | Marine Pollutant | Not applicable |
| | Liquid Substance | Not applicable |
| | Transported in Bulk According to MARPOL | |
| | 73/78, Annex II , the IBC Code | |
| | 100 0000 | |
| | by Air | Conform to the provisions of the Civil Aeronautics Law. |
| | UN No. Proper Shipping Name | 1210 PRINTING INK RELATED MATERIAL |
| | Class | 3 |
| | Packing Group | П |
| Emergency Response Guide Number | | 130 |
| Section 15 - REGULATORY INF | 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) |
| | | 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 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) |
| | | 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) |
| | | Ethanol(Number:61)(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) |
| | | 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) |
| | | Methyl ethyl ketone(Number:570)(Trade Secrets) |
| | | |

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

Substances for which concentration reference values are set (Article 577-2, Paragraph 2 of the Safety and Health Regulations, Notification No. 177 of April 27, Reiwa 5, Public Notice No. 24 of April 27, Reiwa 5)

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

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

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

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 II (Import Approval)

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

Health Act

Industrial Safety and 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.)

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.

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.

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

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

| 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. 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 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 Standards | TLV-TWA:Threshold Limit Values-Time Weighted Average STEL (Short Term Exposure Limit JIS Z7253:2019 |
| Cited Literature | 1) International Chemical Safety Cards |
| | 2) National Institute of Technology and Evaluation (NITE), Japan |
| | 3) Site for Safe Workplace by Ministry of Health, Labour and Welfare, Japan 4) EZSDS (JCDB) |
| Additional Information about This Product: | To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. |