

Issue 2015.08.28

Revision 2025.11.12

Safety Data Sheet (SDS)

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

| | |
|------------------------|--|
| Chemical Identifier | Ink-K119/Ink-1119K |
| Product Code | 1119K/JP-K119 |
| Reference Number | 42 |
| 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 | 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 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Reproductive toxicity Category 1B Specific target organ toxicity (single exposure) Category 2 (blood system, kidney, central nervous system) Specific target organ toxicity (single exposure) Category 3 (narcotic effects, respiratory tract irritation) Specific target organ toxicity (repeated exposure) Category 1 (nervous system) Specific target organ toxicity (repeated exposure) Category 2 (kidney, bladder, liver, blood system) |
| Environmental Hazards | Hazardous to the aquatic environment, short-term (acute) Category 2 Other hazards than mentioned above are Not classified or Classification not possible. |

GHS Label Elements

Pictograms



| | |
|-------------------|--|
| Signal Word | Danger |
| Hazard Statements | H225 Highly flammable liquid and vapour H315 Causes skin irritation H319 Causes serious eye irritation H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H360 May damage fertility or the unborn child H371 May cause damage to blood system, kidney, central nervous system |

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| | H372 Causes damage to nervous system through prolonged or repeated exposure |
| | H373 May cause damage to liver, blood system, kidney, bladder through prolonged or repeated exposure |
| | H401 Toxic to aquatic life |
| 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 hands thoroughly after handling.(P264) Wash eyes 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) Avoid release to the environment.(P273) 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)

Disposal Store locked up.(P405)
Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or Mixture Mixture

| Chemical Name or Generic Name | Concentration or Its Ranges (wt%) | Formula | ENCS No./ISHL No. | | CAS RN |
|--------------------------------------|-----------------------------------|-----------|-------------------------|-------------------------|--------------|
| | | | ENCS No. | ISHL No. | |
| Methyl ethyl ketone | 75-less than 85 | C4H8O | (2)-542 | Existing | 78-93-3 |
| 3-Glycidyloxypropyltrimethoxy silane | 0.1-1 | C9H20O5Si | (2)-2071 | Existing | 2530-83-8 |
| Methanol | 0.1-1 | CH4O | (2)-201 | Existing | 67-56-1 |
| Chromium and its compounds | 5-10 | - | Existing (Trade secret) | Existing (Trade secret) | Trade secret |
| 2-Naphthol | 0.1-1 | C10H8O | (4)-355 | Existing | 135-19-3 |

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.

Unsuitable Extinguishing Media

When dust occurs, use dry sand.

Cylindric water.

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 appropriate extinguishing media.

Prohibit unauthorized staff from entering the area around the fire.

Special Protective Equipment and Precautions for Fire Fighters

Keep unnecessary people away.

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

Section 6 – ACCIDENTAL RELEASE MEASURES

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.

Personal Precautions, Protective Equipment and Emergency Procedures Use goggles in combination with dust mask, and another protections as appropriate to situation.

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

Methods and Equipment for Containment and Cleaning Up No information available

Prevention Measures for Secondary Accidents Keep away from sources of ignition and prepare extinguishing media.

Section 7 – HANDLING AND STORAGE

Handling Technical Measures Provide ventilation system and use necessary personal protective equipment as described in “Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION”.

Ground/bond container and receiving equipment.
Use only non-sparking tools.
Use explosion-proof electrical/ventilating/lighting.

Take precautionary measures against static discharge.

Use local exhaust ventilation in case of production of fume or mist.
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Precautions for Safe Handling Keep cool.
Do not breathe dust/fume/gas/mist/vapours/spray.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
Refer to “Section 10 – STABILITY AND REACTIVITY”.

Storage 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

| | Japan Administration Level | Exposure Limits (Japan Society for Occupational Health) | TLVs (ACGIH) |
|---|----------------------------|---|----------------------------------|
| Methyl ethyl ketone | 200ppm | 200ppm(590mg/m3) | TWA 200 ppm, STEL 300 ppm |
| 3-Glycidyloxypropyltrimethoxy silane | Not listed | Not listed | Not listed |
| Methanol | 200ppm | 200ppm(260mg/m3)(skin) | TWA 200 ppm, STEL 250 ppm (Skin) |
| Chromium and its compounds | Not listed | 0.5mg/m3 as Cr3+ | Not listed |
| 2-Naphthol | Not listed | Not listed | Not listed |
| Concentration standards specified by the Minister of Health, Labour and Welfare | | | |

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| | Concentration standard value for 8-hours exposure | Concentration standard value for short-term exposure/ceiling |
|------------------------------|---|--|
| Methyl ethyl ketone | Not listed | Not listed |
| 3-Glycidyoxypropyltrimethoxy | Not listed | Not listed |
| Methanol | Not listed | Not listed |
| Chromium and its compounds | Not listed | Not listed |
| 2-Naphthol | Not listed | Not listed |

TLVs (ACGIH) can be referenced at: <https://www.acgih.org/>

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|-------------------------------|--------------------------|---|
| 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. 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. |

Section 9 – PHYSICAL AND CHEMICAL 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) |
| Decomposition Temperature | | No data available |
| pH | | No data available |
| Kinematic Viscosity | | 3.7mm ² /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) |

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| | |
|---------------------------------|-----------------------------|
| Density and/or Relative Density | 0.87 |
| Relative Gas Density | 2.41 (Air=1, as 2-Butanone) |
| Particle Characteristics | No data available |

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 | 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 Irritation | | Classified as Category 2A since the sum of 10 × (Eye Category 1 + Skin Category 1) is more than 10%. |
| Respiratory Sensitization | | Classification not possible since lots of the concentrations of unknown ingredients. |
| Skin Sensitization | | Unable to classify due to insufficient data. |
| Germ Cell Mutagenicity | | Unable to classify due to insufficient data. |
| Carcinogenicity | | Unable to classify due to insufficient data. |
| Reproductive Toxicity | | (Reproductive toxicity) Classified as Category 1B since one of the Category 1B ingredients is more than 0.3%. (Reproductive toxicity, effects on or via lactation) |
| 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 2(blood system) since one of the Category 2(blood system) ingredients is more than 10%. |
| | | Classified as Category 2(kidney) since one of the Category 2(kidney) 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%. Classified as Category 3(narcotic effects) since the sum of Category 3(narcotic effects) ingredients is more than 20%. |

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| | | |
|---|---------------------------------------|--|
| | | Classified as Category 3(respiratory tract irritation) since the sum of Category 3(respiratory tract irritation) ingredients is more than 20%. |
| Specific Target Organ Toxicity (Repeated Exposure) | | Classified as Category 1(nervous system) since one of the Category 1(nervous system) ingredients is more than 10%. Classified as Category 2(liver) since one of the Category 2(liver) ingredients is more than 10%. Classified as Category 2(blood system) since one of the Category 2(blood system) ingredients is more than 10%. |
| Aspiration Hazard | | Classified as Category 2(nervous system) since one of the Category 2(nervous system) ingredients is more than 10%. Classified as Category 2(kidney) since one of the Category 2(kidney) ingredients is more than 10%. Classified as Category 2(bladder) since one of the Category 2(bladder) ingredients is more than 10%. Unable to classify due to insufficient data. |
| Section 12 – ECOLOGICAL INFORMATION | | |
| Hazardous to the Aquatic Environment, Short-Term (Acute) | | Classified as Category 2 since the sum of (M × 10 × Category 1) + Category 2 ingredients is more than 25%. |
| 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. |
| | 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 by Sea | Conform to the provisions of IMO. |

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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 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
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

Methanol

Methyl ethyl ketone

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

Dangerous goods and hazardous goods for which the name, etc.
 should be indicated (Article 57, Paragraph 1 of the Act, Article 18,
 Item 2 ~ Item 3 of the Enforcement Order, Appended Table 2 of
 Article 30 of the Safety and Health Regulations)

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)

Chromium and its compounds (excluding chromic acid and
 chromate and dichromate and dichromate)

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>Chromium and its compounds (excluding chromic acid and chromate and dichromate and dichromate) (Trade Secrets)</p> <p>Dangerous goods and hazardous goods whose names, etc. should be notified (Article 57-2, Paragraph 1 of the Act, Article 18-2, Item 2 ~ Item 3 of the Enforcement Order, Article 34-2 Appended Table 2 of the Safety and Health Regulations)</p> <p>2-Naphthol(Ordinance on Industrial Safety and Health Number of Appended Tables 2: 1870) (Trade Secrets) Methyl ethyl ketone (Ordinance on Industrial Safety and Health Number of Appended Tables 2:2034) (Trade Secrets)</p> <p>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> <p>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)</p> |
| Industrial Safety and Health Act(after 2024/4/1) | <p>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)</p> |
| Industrial Safety and Health Act(Substances subject to labeling and notification ,Carcinogenic substances) (Implementation in Reiwa 8) | <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>Chromium and its compounds (excluding hexavalent chromium compounds)(Trade Secrets)</p> <p>Dangerous goods and hazardous goods for which the name, etc. should be indicated (Article 57, Paragraph 1 of the Act, Article 18, Item 2 ~ Item 3 of the Enforcement Order, Appended Table 2 of Article 30 of the Safety and Health Regulations)</p> <p>Methyl ethyl ketone Dangerous goods and hazardous goods whose names, etc. should be notified (Article 57-2, Paragraph 1 of the Act, Article 18-2, Item 2 ~ Item 3 of the Enforcement Order, Article 34-2 Appended Table 2 of the Safety and Health Regulations)</p> <p>2-Naphthol(Ordinance on Industrial Safety and Health Number of Appended Tables 2: 1870) (Trade Secrets) Methyl ethyl ketone (Ordinance on Industrial Safety and Health Number of Appended Tables 2:2034) (Trade Secrets)</p> |
| Industrial Safety and Health Act(Substances subject to labeling and notification ,Carcinogenic substances) (Implementation in Reiwa 9) | <p>Dangerous goods and hazardous goods for which the name, etc. should be indicated (Article 57, Paragraph 1 of the Act, Article 18, Item 2 ~ Item 3 of the Enforcement Order, Appended Table 2 of Article 30 of the Safety and Health Regulations)</p> <p>Methyl ethyl ketone Dangerous goods and hazardous goods whose names, etc. should be notified (Article 57-2, Paragraph 1 of the Act, Article 18-2, Item 2 ~ Item 3 of the Enforcement Order, Article 34-2 Appended Table 2 of the Safety and Health Regulations)</p> <p>2-Naphthol(Ordinance on Industrial Safety and Health Number of Appended Tables 2: 1870) (Trade Secrets)</p> |

Methyl ethyl ketone (Ordinance on Industrial Safety and Health Number of Appended Tables 2:2034) (Trade Secrets)

| | |
|---|--|
| Poisonous and Deleterious Substances Control Act | 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 |
| Act on the Regulation of Manufacture and Evaluation of Chemical Substances | Priority Assessment Chemical Substances(Article 2 part 5) |
| 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 | Narcotics and psychotropic raw materials (Article 2, Paragraph 1, Item 7, Appendix 4, Item 9 of the Law, Article 5 of the Designation Order) |
| Foreign Exchange and Foreign Trade Act | Import Trade Control Order Appended Table I part 16 Export approved goods: Narcotics and psychotropic raw materials (Article 48, Paragraph 3 of the Law; Article 2, Appendix 2, Paragraph 21-3 of the Export Order; Article 1 of Ministerial Ordinance No. 38 of June 19, 1992) Export approved goods, specified hazardous waste, etc. (Article 48, Paragraph 3 of the Law, Article 2, Attached Table 2, Paragraph 35-2 of the Export Order) |
| Ship Safety Law Aviation Law | Flammable liquids(Order Article 3,Appended Table I) Flammable liquids(Order Article 194,Appended Table I) |

Section 16 – OTHER INFORMATION

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| Industrial Safety and Health Act | Second-class organic solvents, etc.contain more than 5% of Second-class organic solvents. 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. 2-butanone and methyl ethyl ketone, MEK and ethyl methyl ketone are the same substances. 3-Glycidioxypropyltrimethoxysilane and 2-[[3-(Trimethoxysilyl)propoxy]methyl]oxirane are the same substance. |
| 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. Substances treated as equipment are exempt from this law. |

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| | |
|--|---|
| RoHS Specified Substance Concentration | 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) |
| 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, 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. |