

Issue 2005.08.31

Revision 2024.10.02

Safety Data Sheet (SDS)

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

| | |
|------------------------|--|
| Chemical Identifier | Ink-1063F/Ink-F63 |
| Product Code | 1063F/JP-F63 |
| Reference Number | 10 |
| 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 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 3 |
| | 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 1 (blood, visual organ, central nervous system, central nervous system) |
| | 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, visual organ, central nervous system, peripheral nervous system) |
| | Specific target organ toxicity (repeated exposure) Category 2 (nervous system, blood) |
| | 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 H331 Toxic 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 |

| | |
|---------------------------------|--|
| | H370 Causes damage to blood, visual organ, central nervous system, central nervous system |
| | H371 May cause damage to kidney |
| | H372 Causes damage to liver, visual organ, central nervous system, peripheral nervous system through prolonged or repeated exposure |
| | H373 May cause damage to blood, nervous system through prolonged or repeated exposure |
| Precautionary Statements | |
| Prevention | Obtain special instructions before use.(P201) |
| | Do not handle until all safety precautions have been read and understood.(P202) |
| | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.(P210) |
| | Keep container tightly closed.(P233) |
| | Ground and bond container and receiving equipment.(P240) |
| | Use explosion-proof electrical, ventilating and lighting equipment.(P241) |
| | Use non-sparking tools.(P242) |
| | Take action to prevent static discharges.(P243) |
| | Do not breathe dust/fume/gas/mist/vapours/spray.(P260) |
| | Avoid breathing dust/fume/gas/mist/vapours/spray.(P261) |
| | Wash hand thoroughly after handling.(P264) |
| | Wash eye thoroughly after handling.(P264) |
| | Do not eat, drink or smoke when using this product.(P270) |
| | Use only outdoors or in a well-ventilated area.(P271) |
| Response | Wear protective gloves/protective clothing/eye protection/face protection.(P280) |
| | IF ON SKIN: Wash with plenty of soap and water.(P302+P352) |
| | IF ON SKIN or hair: Take off immediately all contaminated clothing. Rinse skin with water or shower.(P303+P361+P353) |
| | 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.(P311) |
| | 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) |

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| 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 | 50-60 | CH ₃ CH ₂ CO CH ₃ | (2)-542 | Registered | 78-93-3 |
| Methanol | 1-10 | CH ₃ OH | (2)-201 | Registered | 67-56-1 |
| Ethanol | 1-10 | CH ₃ CH ₂ OH | (2)-202 | Registered | 64-17-5 |
| 2-Propoxyethanol | 10-20 | CH ₃ CH ₂ CH 2OCH ₂ CH ₂ OH | (2)-2424 | Registered | 2807-30-9 |
| Isopropyl alcohol | 0.1-1 | CH ₃ CH(OH))CH ₃ | (2)-207 | Registered | 67-63-0 |

Section 4 – FIRST AID MEASURES

Inhalation

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

Call a doctor.

IF exposed or concerned: Call a doctor.

Specific treatment is urgent.

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.

Unsuitable Extinguishing Media

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.

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.

Environmental Precautions

Large spills :Evacuate area.

Ensure adequate ventilation.

Methods and Equipment for
Containment and Cleaning
Up

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

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

Prevention Measures for
Secondary Accidents

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

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 ³) | TWA 200 ppm, STEL 300 ppm |
| Methanol | 200ppm | 200ppm(260mg/m ³)(skin) | TWA 200 ppm, STEL 250 ppm (Skin) |
| Ethanol | Not listed | Not listed | TWA -, STEL 1000 ppm |

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.

| | | | |
|-------------------|------------|---|---------------------------|
| 2-Propoxyethanol | Not listed | Not listed | Not listed |
| Isopropyl alcohol | 200ppm | 【 Maximum allowable concentration 】 400ppm (980mg/m3) | TWA 200 ppm, STEL 400 ppm |

| | | |
|---------------------|---|--|
| | 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 |
| Methanol | Not listed | Not listed |
| Ethanol | Not listed | Not listed |
| 2-Propoxyethanol | Not listed | Not listed |
| Isopropyl alcohol | 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.

Personal Protective Equipment

Respiratory Protection

Use explosion-proof electrical equipment and prevent from static electricity.

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

Clear

Odour

Solvent odor

Melting Point/Freezing Point

No data available

Boiling Point or Initial Boiling Point and Boiling Ranges

80~150 °C

Flammability

No data available

Lower and Upper Explosion Limit / Flammability Limit

Lower Limit

1.7vol%

Upper Limit

11.4vol%

Flash Point

-4°C (Tag Closed Cup)

Auto-Ignition Temperature

404°C

Decomposition Temperature

No data available

pH

No data available

Kinematic Viscosity

No data available

Solubility

No data available

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.

| | |
|---|--|
| Partition Coefficient : n-Octanol/Water | No data available |
| Vapour Pressure | 9.493kPa (20°C) |
| Density and/or Relative Density | 0.86 |
| 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 | |
| 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) |
| 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) |
| as 2-Propoxyethanol | |
| Boiling Point or Initial Boiling Point and Boiling Ranges | 150°C(743mmHg) |
| Density and/or Relative Density | 0.9141(15°C, 15°C) |
| as Isopropyl alcohol | |
| Boiling Point or Initial Boiling Point and Boiling Ranges | 82.4°C |
| Density and/or Relative Density | 0.7863(20°C, 20°C) |

Section 10 – STABILITY AND REACTIVITY

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|-------------------------------------|--|
| 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 | Unable to classify due to insufficient data. |
| | Dermal | Unable to classify due to insufficient data. |
| | Inhalation | (gas) Does not fall under gas based on GHS definitions. |
| | | (vapour) Classified as Category 3 since ATE is 500 to |

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| | |
|--|--|
| | (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 Eye Category 2 ingredients 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 | Classification not possible since lots of the concentrations of unknown ingredients. |
| Carcinogenicity | Classified as Category 1A since one of the Category 1A 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) |
| Specific Target Organ Toxicity (Single Exposure) | Unable to classify due to insufficient data. Classified as Category 1(blood) since one of the Category 1(blood) ingredients is more than 10%. Classified as Category 1(visual organ) since one of the Category 1(visual organ) 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(central nervous system) since one of the Category 1(central 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 3(narcotic effect) since the sum of Category 3(narcotic effect) ingredients is more than 20%. Classified as Category 3(respiratory tract irritation) since the sum of Category 3(respiratory tract irritation) ingredients is more than 20%. |
| Specific Target Organ Toxicity (Repeated Exposure) | Classified as Category 1(liver) since one of the Category 1(liver) ingredients is more than 10%. Classified as Category 1(visual organ) since one of the Category 1(visual organ) 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(peripheral nervous system) since one of the Category 1(peripheral nervous system) ingredients is more than 10%. Classified as Category 2(blood) since one of the Category 2(blood) ingredients is more than 10%. Classified as Category 2(nervous system) since one of the Category 2(nervous system) ingredients is more than 10%. |
| Aspiration Hazard | Classification not possible since the kinematic viscosity is unknown. |

Section 12 – ECOLOGICAL INFORMATION

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.

| | |
|---|--|
| Hazardous to the Aquatic Environment, Short-Term (Acute) | Classification not possible since lots of the concentrations of unknown ingredients. |
| Hazardous to the Aquatic Environment, Long-Term (Chronic) | Classification not possible since lots of the concentrations of unknown ingredients. |
| Ecotoxicity | No data available |
| Persistence | No data available |
| Bioaccumulative Potential | No data available |
| Mobility in Soil | No data available |
| Hazardous to the Ozone Layer | Unable to classify due to insufficient data. |

Section 13 – DISPOSAL CONSIDERATIONS

| | |
|---------------------------------------|--|
| Residual waste | <p>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.</p> <p>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.</p> <p>Do not let wastewater, etc. used for cleaning machinery or containers flow directly onto the ground or in to the culverts.</p> <p>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.</p> <p>When incinerating of waste materials, etc., do not use an incinerator without cleaning equipment, as harmful gas will be generated.</p> <p>Clarify the contents of waste materials and entrust disposal to a waste disposal company.</p> |
| Contaminated containers and packaging | Empty containers should be treated as industrial wastes and not allowed to contain waste. |

Section 14 – TRANSPORT INFORMATION

| | | |
|---------------------------|---|---|
| International Regulations | Regulatory Information by Sea | Conform to the provisions of IMO. |
| | UN No. | 1210 |
| | Proper Shipping Name | PRINTING INK RELATED MATERIAL |
| | Class | 3 |
| | Packing Group | II |
| | Marine Pollutant | Not applicable |
| | Liquid Substance | Not applicable |
| | Transported in Bulk According to MARPOL 73/78, Annex II, the IBC Code | |
| | Regulatory Information by Air | Conform to the provisions of ICAO/IATA. |
| | UN No. | 1210 |
| | Proper Shipping Name | PRINTING INK RELATED MATERIAL |
| | Class | 3 |
| | Packing Group | II |
| Regulations in Japan | Regulatory Information by Road or Rail | Complies with the Fire Service Act. |
| | Regulatory Information by Sea | Conform to the provisions of the Ship Safety Law. |

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

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

Dangerous Substances –Flammable substances(Order Article Appended Table 1 part 4)

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)
 Propyl alcohol (Number:494) (Trade Secrets)
 Methanol (Number:560) (Trade Secrets)
 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 (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)

Methanol
 Methyl ethyl ketone
 2-Propoxyethanol

Substances subject to labeling and SDS issuance based on the Industrial Safety and Health Act (scheduled to come into effect on April 1, Reiwa 7)

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)

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)

Poisonous and Deleterious Substances Control Act

2-Propoxyethanol (Number:268) (Trade Secrets)
 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 petroleums non water-soluble Packing Group II |
| 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 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. 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. |
| 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. Isopropyl alcohol belongs to propyl alcohol. 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 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. 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 |

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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.