



Hayashi Pure Chemical Ind.,Ltd. Revision date: 4/1/2024

Date of issue: 5/27/2010

SDS code: A5-10

Version: 10

Safety Data Sheet

1. Chemical product and company identification

| Product name SDS code | : | n-Butyl phthalate A5-10 |
|---|--------------|--|
| Company/undertaking identification HAYASHI PURE CHEMICAL Address : 3-2-12 Uchihirano Telephone : 06-6910-7305 E-mail : shiyaku_kikaku@hp URL : https://www.hpc-j.co.j | oma oc-j. | chi, Chuo-ku, Osaka, Osaka, Japan |
| Emergency number Recommended use Restrictions on use | :: | 06-6910-7305 For research and experimental use only. Do not use on a human body or for animal medicines, foods, household products, cosmetics, etc. |

2. Hazards identification

GHS classification

| Physical hazards | Explosives | No classification |
|------------------|--|--|
| | Flammable gases | No classification |
| | Aerosol | No classification |
| | Oxidizing gases | No classification |
| | Gases under pressure | No classification |
| | Flammable liquids | No classification |
| | Flammable solids | No classification |
| | Self-reactive substances and mixtures | No classification |
| | Pyrophoric liquids | No classification |
| | Pyrophoric solids | No classification |
| | Self-heating substances and mixtures | classification not possible |
| | Substances and mixtures which in contact with water emit flammable gases | No classification |
| | Oxidizing liquids | No classification |
| | Oxidizing solids | No classification |
| | Organic peroxides | No classification |
| | Corrosive to metals | classification not possible |
| | Desensitized explosives | classification not possible |
| Health hazards | Acute toxicity (oral) | No classification |
| | Acute toxicity (dermal) | No classification |
| | Acute toxicity (inhalation:gas) | No classification |
| | Acute toxicity (inhalation:vapors) | classification not possible |
| | Acute toxicity (inhalation:dust/mist) | No classification |
| | Skin corrosion/irritation | No classification |
| | Serious eye damage/eye irritation | No classification |
| | Respiratory sensitization | classification not possible |
| | Skin sensitization | Category 1 |
| | Germ cell mutagenicity | classification not possible |
| | Carcinogenicity | classification not possible |
| | Reproductive toxicity | Category 1B |
| | Specific target organ toxicity (single exposure) | Category 3 (Respiratory tract irritation.) |
| | | |

| | | | re) | Category 1 (respiratory system) |
|----------------------------------|--|-----|--|---|
| Environmental | | | | Category 1 |
| hazards | | | rt-term (acute) aquatic | Category 2 |
| | Hazardous to the aquatic environment, long-term (chronic) | | | |
| | Hazardous to | the | ozone layer | classification not possible |
| Hazard pictograms (GHS JP) | | | | |
| | GHS07 | G | GHS08 GH | 1509 |
| Signal word (GHS JP | | : | Danger | |
| Hazard statements (C | GHS JP) | : | May cause respir May damage ferti Causes damage repeated exposur Very toxic to aqua | |
| Precautionary statem | ents (GHS JP) | | | |
| Prevention | | : | Do not handle un (P202) Do not breathe du Wash hands, fore Do not eat, drink Use only outdoors Contaminated wo (P272) Avoid release to t Wear protective of (P280) | structions before use. (P201) til all safety precautions have been read and understood. ust/fume/gas/mist/vapors/spray. (P260) earms and face thoroughly after handling. (P264) or smoke when using this product. (P270) s or in a well-ventilated area. (P271) ork clothing should not be allowed out of the workplace. the environment. (P273) gloves/protective clothing/eye protection/face protection. |
| Response | | : | IF INHALED: Rer breathing (P304+ IF exposed or cor Get medical advic If skin irritation or | ncerned: Get medical advice/attention. (P308+P313) ce/attention if you feel unwell. (P314) rash occurs: Get medical advice/attention. (P333+P313) nated clothing and wash it before reuse. (P362+P364) |
| Storage | | : | Store in a well-ve (P403+P233) Store locked up. | ntilated place. Keep container tightly closed. |
| Disposal | | : | | nts/container to hazardous or special waste collection nee with local, regional, national and/or international |

3. Composition/information on ingredients

| Distinction of substance or mixture | : | Substance |
|-------------------------------------|---|------------------------|
| Synonyms | : | DBP, Dibutyl phthalate |

| | Concentration or | | Kanpo | | |
|----------------------|------------------------|----------|----------|-----------------------------------|---------|
| Name | Concentration range | Formula | CSCL no | ISHL no | CAS RN |
| Di-n-butyl phthalate | ≧98.0%, ≦100% | C16H22O4 | (3)-1303 | Existing Chemical Substance | 84-74-2 |

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are wt%, unless otherwise specified.

4. First aid measures

| First aid measures | | |
|---|---|--|
| First-aid measures after inhalation | : | Remove person to fresh air and keep comfortable for breathing. |
| | | Get immediate medical advice/attention. |
| First-aid measures after skin | : | Remove/Take off immediately all contaminated clothing. |
| contact | | Gently wash with plenty of soap and water. |
| | | Get immediate medical advice/attention. |
| First-aid measures after eye contact | : | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| | | Get immediate medical advice/attention. |
| First-aid measures after ingestion | : | Do NOT induce vomiting. |
| | | Rinse mouth. |
| | | Get immediate medical advice/attention. |

5. Fire fighting measures

| Suitable extinguishing media | : | Water spray, Foam, Dry powder, Carbon dioxide, Sand. |
|---|---|--|
| Unsuitable extinguishing media | : | Do not use a heavy water stream. |
| Explosion hazard | : | May induce explosion of containers by heating. |
| Hazardous decomposition products in case of fire | : | In case of fire, product may produce irritative or toxic fumes/gases. |
| Firefighting instructions | : | If ignited, for the initial fire-fighting, cut off combustion sources, extinguish fire at a stroke using appropriate fire-extinguishers. |
| | | In the case of peripheral fire, quickly remove movable containers to safe places. |
| | | If unable to be moved containers, sprinkle water to containers and surrounding equipment, etc. to cool. |
| | | Avoid (reject) fire-fighting water to enter environment. |
| | | Even after extinguishing fire, thoroughly cool containers by using plenty of water. |
| Protection during firefighting | : | Wear appropriate fire-resistant clothing including self contained- compressed air breathing apparatus. |

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

| | ······································ |
|-----------------------------------|--|
| General measures | Before entering, ventilate the area. |
| | Do not let unauthorized persons come close to the area. |
| | Immediately place the leakage area in isolation, with taking proper distances for all directions. |
| | Wear appropriate personal protective devices to prevent inhalation and contact with eye, skin, and clothing, and never attempt to work on the lee. |
| Environmental precautions | |
| Environmental precautions | Avoid release to the environment. |
| | Prevent entry to sewers and public waters. |
| Methods and Equipment for Contain | ment and Cleaning up |
| Methods for cleaning up | Clean up any spills as soon as possible, using an absorbent material to collect it. |
| | Collect leaking and spilled liquid in sealable containers as far as possible. |
| | Wash out the spilled area with large amounts of water. |
| 7. Handling and storage | |
| Handling | |
| Technical measures | Work with appropriate personal protective equipment to prevent inhalation or contact to eyes, skin, and clothing. |

Handle with care to prevent leakage, overflowing, or scattering, minimize generation of mist or vapor, and thoroughly ventilate.

| Precautions for safe handling | : | Do not eat, drink or smoke when using this product. Thoroughly wash your hands and gargle after handling. Ensure good ventilation of the work station. Do not contact, breathe or swallow. |
|---|----|---|
| Prevents handling of incompatible substances or mixtures | : | Avoid prolonged or repeated exposure. |
| Storage | | |
| Storage conditions | : | Store locked up. |
| | | Store in a well-ventilated place, away from direct sunlight. Keep container tightly closed and keep away from fire and heat sources. |
| Material used in packaging/containers | : | Light shielding airtight container. |
| Technical measures | : | Comply with applicable regulations. |
| Storage temperature | : | Cool and dark place |
| packaging/containers Technical measures | :: | Light shielding airtight container. Comply with applicable regulations. |

8. Exposure controls / Personal protection equipment

| Exposure limit values | |
|----------------------------------|--|
| Di-n-butyl phthalate | |
| Exposure limits (JSOH) | 5mg/m3 |
| Appropriate engineering controls | : Cover up tightly the generation source at the handling place or install local exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location. |
| Protective equipment | |
| Respiratory protection | : Gas mask for organic gases |
| Hand protection | : Impervious protective gloves |
| Eye protection | : Protective glasses (general glasses, glasses with side-shields, goggles) |
| Skin and body protection | : Impervious aprons, Impervious work clothing, Impervious long boots |

9. Physical and chemical properties

| - | • • |
|---|--|
| Physical state | : Liquid |
| Appearance | : Oily liquid |
| Color | : colorless |
| Odor | : characteristic odor |
| рН | : No data available |
| Melting point | : -35 °C |
| Freezing point | : No data available |
| Boiling point | : 340 °C |
| Flash point | : 157 °C (closed cup) |
| Auto-ignition temperature | : 402 °C |
| Decomposition temperature | : No data available |
| Flammability | : No data available |
| Vapor pressure | : 0.01 kPa (20°C) |
| Relative density | : No data available |
| Density | : 1.05 g/cm ³ (20°C) |
| Relative gas density | : No data available |
| Solubility | : Soluble in ethanol. Soluble in many organic solvents. Water: 0.001 % (25°C) |
| Partition coefficient n- octanol/water (Log Pow) | : 4.72 |
| Explosive limits (vol %) | : 0.5 – 2.5 vol % (in air) |
| Viscosity, kinematic | : No data available |
| Particle characteristics | : No data available |
| | |

10. Stability and reactivity

| Reactivity | : | No data available |
|--------------------|---|--|
| Chemical stability | : | Stable under normal handling conditions. |

| Hayashi Pure Chemical Ind.,Ltd. | | | n-Buty | /l phthalate |
|------------------------------------|---|--|-----------------|--------------|
| | | Revision date: 4/1/2024 | SDS code: A5-10 | Version: 10 |
| Possibility of hazardous reactions | : | Reacts with strong oxidizing agents. | | |
| Conditions to avoid | : | Sunlight, heat. Ignition sources such as s Contact with strong oxidizing agents, stro | | |
| Incompatible materials | : | Strong oxidizing agents, Strong bases, A | cids | |
| Hazardous decomposition | : | Phthalic anhydride | | |

Hazardous decomposition products

11. Toxicological information

The information in this section is based on the "GHS Classification Results" by NITE.

| Di-n-butyl phthalate | | |
|---------------------------------------|--|--|
| Acute toxicity (oral) | No classification | |
| Acute toxicity (dermal) | No classification | |
| Acute toxicity (gas) | No classification | |
| Acute toxicity (vapour) | classification not possible | |
| Acute toxicity (inhalation:dust/mist) | No classification | |
| Skin corrosion/irritation | No classification | |
| Serious eye damage/irritation | No classification | |
| Respiratory sensitization | classification not possible | |
| Skin sensitization | Category 1 | |
| Germ cell mutagenicity | classification not possible | |
| Carcinogenicity | classification not possible | |
| Reproductive toxicity | Category 1B | |
| STOT-single exposure | Category 3 (Respiratory tract irritation.) | |
| STOT-repeated exposure | Category 1 | |
| Aspiration hazard | classification not possible | |

12. Ecological information

The information in this section is based on the "GHS Classification Results" by NITE.

| Di-n-butyl phthalate | | |
|--|-----------------------------|--|
| Hazardous to Aquatic Environment - Acute Hazard | Category 1 | |
| Hazardous to Aquatic Environment - Chronic Hazard | Category 2 | |
| Persistence and degradability | No data available | |
| Bioaccumulative potential | No data available | |
| Mobility in soil | No data available | |
| Hazardous to the ozone layer | classification not possible | |

13. Disposal considerations

| Ecology - waste materials | : | With the detail information of the waste, subcontract its disposal to a waste disposer authorized by a Prefectural Governor. |
|--------------------------------------|---|---|
| Contaminated container and packaging | : | Empty the packaging completely prior to disposal. Empty containers should be taken for recycle, recovery or waste in accordance with local regulation. |

14. Transport information

International Regulations

Transport by sea(IMDG)

| UN-No. (IMDG) | : | 3082 |
|-----------------------------------|---|---|
| Proper Shipping Name (IMDG) | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| Packing group (IMDG) | : | |
| Transport hazard class(es) (IMDG) | : | 9 |
| Hazard labels (IMDG) | : | 9 |
| Class (IMDG) | : | 9 |
| Special provision (IMDG) | : | 274, 335, 969 |

| Limited quantities (IMDG) | : 5L |
|---|---|
| Excepted quantities (IMDG) | : E1 |
| Packing instructions (IMDG) | : LP01, P001 |
| Packing provisions (IMDG) | : PP1 |
| IBC packing instructions (IMDG) | : IBC03 |
| Tank instructions (IMDG) Tank special provisions (IMDG) | : T4 : TP2, TP29 |
| Stowage category (IMDG) | . 1F2, 1F29 : A |
| MFAG-No | : 171 |
| | |
| Air transport(IATA) | |
| UN-No. (IATA) | : 3082 |
| Proper Shipping Name (IATA) | : Environmentally hazardous substance, liquid, n.o.s. |
| Packing group (IATA) | : |
| Transport hazard class(es) (IATA) | : 9 |
| Hazard labels (IATA) | : 9 |
| Class (IATA) | : 9 |
| PCA Excepted quantities (IATA) | : E1 |
| PCA Limited quantities (IATA) | : Y964 |
| PCA limited quantity max net | : 30kgG |
| quantity (IATA) | . 004 |
| PCA packing instructions (IATA) PCA max net quantity (IATA) | : 964 : 450L |
| CAO packing instructions (IATA) | . 450∟ : 964 |
| CAO max net quantity (IATA) | . 904 : 450L |
| Special provision (IATA) | : A97, A158, A197 |
| ERG code (IATA) | : 9L |
| | |
| Marine pollutant | : Applicable |
| Regulations in Japan | |
| Regulatory information by sea | : Conform to the provisions of the Ship Safety Law. |
| Regulatory information by air | : Conform to the provisions of the Civil Aeronautics Law. |
| MFAG-No | : 171 |
| Special transport precautions | : When transporting, load containers so that they do not tip over, |
| | damage, drop or collapse. Make sure there is no leak in containers. |
| | |
| | |
| 15. Regulatory information | |
| 0, | |
| National law | |
| 0, | : Harmful Substances Whose Names Are to be Indicated on the Label |
| National law | : Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) |
| National law | : Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Dangerous or Harmful Substances for Notification of Chemical Name |
| National law | Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2) |
| National law | Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2) Phthalic acid, di-n-butyl ester |
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| National law Industrial Safety and Health Law | Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2) Phthalic acid, di-n-butyl ester Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 4 based on July 4, 2023) |
| National law | Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2) Phthalic acid, di-n-butyl ester Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, |
| National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law | Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2) Phthalic acid, di-n-butyl ester Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 4 based on July 4, 2023) Not applicable |
| National law Industrial Safety and Health Law Japanese Poisonous and | Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2) Phthalic acid, di-n-butyl ester Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 4 based on July 4, 2023) Not applicable Group 4, Flammable Liquids, Class 3 petroleums, Water-insoluble |
| National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Fire Service Law | Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2) Phthalic acid, di-n-butyl ester Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 4 based on July 4, 2023) Not applicable Group 4, Flammable Liquids, Class 3 petroleums, Water-insoluble liquids (Act, Art.2, Para.7, Appended Table 1, Group 4) |
| National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Fire Service Law Air Pollution Control Law | Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2) Phthalic acid, di-n-butyl ester Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 4 based on July 4, 2023) Not applicable Group 4, Flammable Liquids, Class 3 petroleums, Water-insoluble liquids (Act, Art.2, Para.7, Appended Table 1, Group 4) Hazardous Air Pollutants (Central Environment Council Report No. 9) |
| National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Fire Service Law Air Pollution Control Law Law Relating to Prevention of | Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2) Phthalic acid, di-n-butyl ester Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 4 based on July 4, 2023) Not applicable Group 4, Flammable Liquids, Class 3 petroleums, Water-insoluble liquids (Act, Art.2, Para.7, Appended Table 1, Group 4) Hazardous Air Pollutants (Central Environment Council Report No. 9) Marine Pollutants for Non-Bulk Shipment (Ordinance Art.30-2-3, MLIT |
| National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Fire Service Law Air Pollution Control Law Law Relating to Prevention of Marine Pollution and Maritime | Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2) Phthalic acid, di-n-butyl ester Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 4 based on July 4, 2023) Not applicable Group 4, Flammable Liquids, Class 3 petroleums, Water-insoluble liquids (Act, Art.2, Para.7, Appended Table 1, Group 4) Hazardous Air Pollutants (Central Environment Council Report No. 9) Marine Pollutants for Non-Bulk Shipment (Ordinance Art.30-2-3, MLIT Notification) |
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| National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Fire Service Law Air Pollution Control Law Law Relating to Prevention of Marine Pollution and Maritime Disasters Foreign Exchange and Foreign | Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2) Phthalic acid, di-n-butyl ester Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 4 based on July 4, 2023) Not applicable Group 4, Flammable Liquids, Class 3 petroleums, Water-insoluble liquids (Act, Art.2, Para.7, Appended Table 1, Group 4) Hazardous Air Pollutants (Central Environment Council Report No. 9) Marine Pollutants for Non-Bulk Shipment (Ordinance Art.30-2-3, MLIT Notification) Noxious Liquid Substances - Category X (Law Art.3(3), Enforcement |
| National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Fire Service Law Air Pollution Control Law Law Relating to Prevention of Marine Pollution and Maritime Disasters | Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2) Phthalic acid, di-n-butyl ester Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 4 based on July 4, 2023) Not applicable Group 4, Flammable Liquids, Class 3 petroleums, Water-insoluble liquids (Act, Art.2, Para.7, Appended Table 1, Group 4) Hazardous Air Pollutants (Central Environment Council Report No. 9) Marine Pollutants for Non-Bulk Shipment (Ordinance Art.30-2-3, MLIT Notification) Noxious Liquid Substances - Category X (Law Art.3(3), Enforcement Order, Art.1-2, Attached Table No.1 Item 1) |
| National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Fire Service Law Air Pollution Control Law Law Relating to Prevention of Marine Pollution and Maritime Disasters Foreign Exchange and Foreign | Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2) Phthalic acid, di-n-butyl ester Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 4 based on July 4, 2023) Not applicable Group 4, Flammable Liquids, Class 3 petroleums, Water-insoluble liquids (Act, Art.2, Para.7, Appended Table 1, Group 4) Hazardous Air Pollutants (Central Environment Council Report No. 9) Marine Pollutants for Non-Bulk Shipment (Ordinance Art.30-2-3, MLIT Notification) Noxious Liquid Substances - Category X (Law Art.3(3), Enforcement Order, Art.1-2, Attached Table No.1 Item 1) Export Trade Control Ordinance appendix 1-16 Miscellaneous dangerous substances & articles (Dangerous Goods |
| National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Fire Service Law Air Pollution Control Law Law Relating to Prevention of Marine Pollution and Maritime Disasters Foreign Exchange and Foreign Trade Control Act | Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2) Phthalic acid, di-n-butyl ester Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 4 based on July 4, 2023) Not applicable Group 4, Flammable Liquids, Class 3 petroleums, Water-insoluble liquids (Act, Art.2, Para.7, Appended Table 1, Group 4) Hazardous Air Pollutants (Central Environment Council Report No. 9) Marine Pollutants for Non-Bulk Shipment (Ordinance Art.30-2-3, MLIT Notification) Noxious Liquid Substances - Category X (Law Art.3(3), Enforcement Order, Art.1-2, Attached Table No.1 Item 1) Export Trade Control Ordinance appendix 1-16 Miscellaneous dangerous substances & articles (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods |
| National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Fire Service Law Air Pollution Control Law Law Relating to Prevention of Marine Pollution and Maritime Disasters Foreign Exchange and Foreign Trade Control Act | Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2) Phthalic acid, di-n-butyl ester Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 4 based on July 4, 2023) Not applicable Group 4, Flammable Liquids, Class 3 petroleums, Water-insoluble liquids (Act, Art.2, Para.7, Appended Table 1, Group 4) Hazardous Air Pollutants (Central Environment Council Report No. 9) Marine Pollutants for Non-Bulk Shipment (Ordinance Art.30-2-3, MLIT Notification) Noxious Liquid Substances - Category X (Law Art.3(3), Enforcement Order, Art.1-2, Attached Table No.1 Item 1) Export Trade Control Ordinance appendix 1-16 Miscellaneous dangerous substances & articles (Dangerous Goods |
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| National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Fire Service Law Air Pollution Control Law Law Relating to Prevention of Marine Pollution and Maritime Disasters Foreign Exchange and Foreign Trade Control Act Ship Safety Act | Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2) Phthalic acid, di-n-butyl ester Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 4 based on July 4, 2023) Not applicable Group 4, Flammable Liquids, Class 3 petroleums, Water-insoluble liquids (Act, Art.2, Para.7, Appended Table 1, Group 4) Hazardous Air Pollutants (Central Environment Council Report No. 9) Marine Pollutants for Non-Bulk Shipment (Ordinance Art.30-2-3, MLIT Notification) Noxious Liquid Substances - Category X (Law Art.3(3), Enforcement Order, Art.1-2, Attached Table No.1 Item 1) Export Trade Control Ordinance appendix 1-16 Miscellaneous dangerous substances & articles (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations) |
| National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Fire Service Law Air Pollution Control Law Law Relating to Prevention of Marine Pollution and Maritime Disasters Foreign Exchange and Foreign Trade Control Act Ship Safety Act Civil Aeronautics Law | Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2) Phthalic acid, di-n-butyl ester Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 4 based on July 4, 2023) Not applicable Group 4, Flammable Liquids, Class 3 petroleums, Water-insoluble liquids (Act, Art.2, Para.7, Appended Table 1, Group 4) Hazardous Air Pollutants (Central Environment Council Report No. 9) Marine Pollutants for Non-Bulk Shipment (Ordinance Art.30-2-3, MLIT Notification) Noxious Liquid Substances - Category X (Law Art.3(3), Enforcement Order, Art.1-2, Attached Table No.1 Item 1) Export Trade Control Ordinance appendix 1-16 Miscellaneous dangerous substances & articles (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations) Miscellaneous dangerous substances & articles (Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations) |
| National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Fire Service Law Air Pollution Control Law Law Relating to Prevention of Marine Pollution and Maritime Disasters Foreign Exchange and Foreign Trade Control Act Ship Safety Act | Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2) Phthalic acid, di-n-butyl ester Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 4 based on July 4, 2023) Not applicable Group 4, Flammable Liquids, Class 3 petroleums, Water-insoluble liquids (Act, Art.2, Para.7, Appended Table 1, Group 4) Hazardous Air Pollutants (Central Environment Council Report No. 9) Marine Pollutants for Non-Bulk Shipment (Ordinance Art.30-2-3, MLIT Notification) Noxious Liquid Substances - Category X (Law Art.3(3), Enforcement Order, Art.1-2, Attached Table No.1 Item 1) Export Trade Control Ordinance appendix 1-16 Miscellaneous dangerous substances & articles (Dangerous Goods Notifications) Miscellaneous dangerous substances & articles (Hazardous materials |
| National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Fire Service Law Air Pollution Control Law Law Relating to Prevention of Marine Pollution and Maritime Disasters Foreign Exchange and Foreign Trade Control Act Ship Safety Act Civil Aeronautics Law Japanese Pollutant Release and | Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2) Phthalic acid, di-n-butyl ester Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 4 based on July 4, 2023) Not applicable Group 4, Flammable Liquids, Class 3 petroleums, Water-insoluble liquids (Act, Art.2, Para.7, Appended Table 1, Group 4) Hazardous Air Pollutants (Central Environment Council Report No. 9) Marine Pollutants for Non-Bulk Shipment (Ordinance Art.30-2-3, MLIT Notification) Noxious Liquid Substances - Category X (Law Art.3(3), Enforcement Order, Art.1-2, Attached Table No.1 Item 1) Export Trade Control Ordinance appendix 1-16 Miscellaneous dangerous substances & articles (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations) Miscellaneous dangerous substances & articles (Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations) Class 1 Designated Chemical Substances (Act Art.2 para.2, |
| National law Industrial Safety and Health Law Japanese Poisonous and Deleterious Substances Control Law Fire Service Law Air Pollution Control Law Law Relating to Prevention of Marine Pollution and Maritime Disasters Foreign Exchange and Foreign Trade Control Act Ship Safety Act Civil Aeronautics Law Japanese Pollutant Release and | Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2) Phthalic acid, di-n-butyl ester Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 4 based on July 4, 2023) Not applicable Group 4, Flammable Liquids, Class 3 petroleums, Water-insoluble liquids (Act, Art.2, Para.7, Appended Table 1, Group 4) Hazardous Air Pollutants (Central Environment Council Report No. 9) Marine Pollutants for Non-Bulk Shipment (Ordinance Art.30-2-3, MLIT Notification) Noxious Liquid Substances - Category X (Law Art.3(3), Enforcement Order, Art.1-2, Attached Table No.1 Item 1) Export Trade Control Ordinance appendix 1-16 Miscellaneous dangerous substances & articles (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations) Miscellaneous dangerous substances & articles (Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations) Class 1 Designated Chemical Substances (Act Art.2 para.2, Enforcement Order Art.1 Appended Table No.1) |

16. Other information

| Data sources | : | Handbook of 17423 Chemical Products, The Chemical Daily Co, Ltd. International Chemical Safety Cards. National Institute of Technology and Evaluation (NITE). 2020 Emergency Response Guidebook (ERG 2020). |
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| Other information | : | The SDS is copyrighted material of Hayashi Pure Chemical Ind, Ltd. This Safety Data Sheet is intended to be provided for business operators who handle chemical substance products of the relevant product and is not intended to assure safety in any way. The Safety Data Sheet does not verify all the information on the applicable chemical substance in the present time. With the recognition in that unknown danger constantly exists in the relevant chemical substance, the product shall be used in the principle of self-responsibility of the user with the highest priority to safety from transport and unpacking to disposal. When the relevant chemical substance is used, the user him/herself shall collect safety information and shall investigate laws and regulations at the place, organizations, countries, etc. where the substance is actually used and give the highest priority to them. The Company shall take no responsibility for investigating state and local regulations and the user shall handle this problem on his/her own responsibility. In the event that SDS in Japanese and SDS translated into other languages exist, the document described in Japanese is prior to all other documents whether or not there is any difference in contents, and documents in other languages shall be references. |