| SECTION 1 | Chemicals and company ident | ification |
|-----------|-----------------------------|---|
| Pro | duct name | PHILICFINE HP-U |
| Pro | duct code | EH08 |
| Con | npany name | CANON OPTRON INC. |
| Add | Iress | 1744-1, Kanakubo, Yuki-shi, Ibaraki-ken, 307-0015 Japan |
| Sec | tion name | Sales Department |
| Tele | ephone number | +81-296-21-3700 |
| Fax | number | +81-296-21-3770 |
| Eme | ergency telephone tumber | +81-296-21-3700 |
| Use | | Vacuum deposition material |

SECTION 2 Hazards identification

GHS Classification (A classification by JIS Z 7252 "classification methods such as chemical substances based on GHS")

| Physical hazards | Explosives | Classification not possible |
|------------------|--|-----------------------------|
| | Flammable gases | Not applicable |
| | Aerosols | Not applicable |
| | Oxidizing gases | Not applicable |
| | Gas under pressure | Not applicable |
| | Flammable liquids | Not applicable |
| | Flammable solids | Classification not possible |
| | Self-reactive substances and mixtures | Classification not possible |
| | Pyrophoric liquids | Not applicable |
| | Pyrophoric solids | Classification not possible |
| | Self-heating substances and mixtures | Classification not possible |
| | Substances and mixtures which,in contact with water,emit flammable gases | Classification not possible |
| | Oxidizing liquids | Not applicable |
| | Oxidizing solids | Classification not possible |
| | Organic peroxides | Classification not possible |
| | Corrosive to metals | Classification not possible |
| Health hazards | Desensitize explosives | Classification not possible |
| | Acute toxicity(oral) | Classification not possible |
| | Acute toxicity(dermal) | Classification not possible |
| | Acute toxicity (Inhalation: Gases) | Not applicable |
| | Acute toxicity (Inhalation: Vapors) | Classification not possible |
| | | |

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| | Acute toxicity (Inhalation: Dusts and mists) | Classification not possible |
|-----------------------|--|-----------------------------|
| | Skin corrosion/irritation | Classification not possible |
| | Serious eye damage/eye irritation | Classification not possible |
| | Respiratory sensitization | Classification not possible |
| | Skin sensitization | Category 1 |
| | Germ cell mutagenicity | Classification not possible |
| | Carcinogenicity | Classification not possible |
| | Reproductive toxicity | Classification not possible |
| | Reproductive toxicity, effects on or via lactation | Classification not possible |
| | Specific target organ toxicity(single exposure) | Category 3 |
| | Specific target organ toxicity(repeated exposure) | Category 1 |
| | Aspiration hazard | Classification not possible |
| Environmental hazards | Hazardous to the aquatic environment Short-term(acute) | Classification not possible |
| | Hazardous to the aquatic environment Long-term(chronic) | Classification not possible |
| | Hazardous to the ozone layer | Classification not possible |
| pel elements | | |
| | | |

Exclamation Health Hazard

Signal word

Label

Danger

Dangerous goods hazard information

hazard Pictograms

Precautionary statements

May cause an allergic skin reaction. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure Lungs.

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| [Saf | ety measures】 | Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear Protective glovess/protective clothing/eye protection/face protection. |
|-------|------------------|---|
| 【Firs | st-aid measures】 | IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Call poison center or doctor/physician. Call a poison center or doctor/physician if you feel unwell. Get medical advice/attention if you feel unwell. Specific treatment . If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. |
| [Sto | rage】 | Store in a well-ventilated place. Keep container tightly closed. Store locked up. |
| | posal】 | Dispose of contents/container in accordance with national regulations. |
| 【Oth | er hazards】 | - |

SECTION 3 Composition/information on ingredients

| Substance/Mixture | Mixture | |
|--------------------------------------|--|--|
| Chemical name | Aluminum oxide | Zirconium oxide |
| Chemical formula | Al2O3 | ZrO2 |
| Concentration or concentration range | Al2O3 : 75– 85 ZrO2: 15– 25 | |
| CAS No. | 1344-28-1 | 1314-23-4 |
| TSCA Inventry | Aluminum oxide (Al2O3) | Zirconium oxide (ZrO2) |
| EINECS number | 215-691-6 | 215-227-2 |
| Radioactive information | Radioactive substances are not used as the material. Therefore, there is no reason that ionizing radiation would be generated. | |
| SECTION 4 First aid measures | | |
| Inhalation | Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell. | |
| Skin contact | Take off immediately all contaminate | ed clothing. Rinse affected areas with |

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: :Get medical advice/attention.

Eye contact Rinse cautiously with water for several minutes.Remove contact lenses, if present and easy to do. Continue rising. If eye irritation persists:Get medical advice/attention.

water/shower.

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| Ingestion | Rinse mouth. Get medical advice/attention. |
|--|--|
| Most important symptoms and effects, both acute and delayed | No data available |
| Protection of first aiders | Rescuers, wear suitable protective equipment as the situation demands. |
| Special precautions for physicians | No data available |
| SECTION 5 Firefighting measures | |
| Suitable extinguishing media | This product itself is not flammable. |
| Unsuitable extinguishing media | No data available |
| Specific hazards | No data available |
| Specific extinguishing methods | In the case of a fire in the periphery, the portable container is quickly moved to a safe place. |
| Special protective equipment for firefighters | Wear suitable protective equipment (gloves, glasses and a mask) in fire-fighting. |
| SECTION 6 Accidental release measures | |
| Personal precautions, protective equipment, and emergency procedures | Protection equipment (specified as those in which the properties of the product are suitable) worn during operation so that airborne droplets, etc., do not adhere to the skin and dusts and gases are not absorbed. |
| Environmental precautions | The leakage may not directly flow into rivers or sewage. |
| Methods and material for containment and cleaning up | The leaked material is scooped up, or swept up and gathered to be recovered in a paper bag or a drum. After recovery, a small amount of the residue is absorbed in sediment, sawdust, etc. |
| Secondary disaster prevention measures | No data available |
| SECTION 7 Handling and storage | |
| Precautions for safe handling | |
| Technical measures | Take measures for equipment as described in "8. Exposure controls/personal protection" and wear protective equipment. |
| Safety handling precautions | Handling work must be practiced in a room where there is a local or total ventilation facility. |
| Avoidance of contact | Refer to "10. Stability and reactivity." |
| Hygiene measures | Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. |
| Conditions for safe storage, including any incompatibilities | |

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|--|---|--|---|
| | Safe storage conditions | Store in a well-ventilated place. Keep conta Store locked up. | ainer tightly closed. |
| | Safety packaging material | No data available | |
| SECTION 8 | Exposure controls/personal p | rotection | |
| | | <u>AI2O3</u> | <u>Zr02</u> |
| Per | rmissible concentration | | |
| | ACGIH | (Particulate asbestos-free, less than 1% crystalline silica) TLV-TWA 10mg/m ² | TLV−TWA: 5 mg/m [*] TLV−TWA: 10 mg/m [*] (as zirconium and compound, zirconium) (2015 version) |
| Арг | propriate engineering controls | Use sealed devices, equipment, or a local expossible. | xhaust ventilation as much as |
| suc | ividual protection measures, ch as personal protective uipment | | |
| | Respiratory protection | Dustproof mask | |
| | Hand protection | Protective gloves | |
| | Eye/face protection | Dust-proof glasses | |
| | Eye/ lace protection | Dust plool glasses | |
| | Skin protection | Protective clothing | |
| SECTION 9 | | Protective clothing | |
| | Skin protection | Protective clothing | |
| | Skin protection Physical and chemical propert | Protective clothing | |
| | Skin protection Physical and chemical propert | Protective clothing | |
| | Skin protection Physical and chemical propert pearance Physical state | Protective clothing ties Solid | |
| | Skin protection Physical and chemical propert pearance Physical state Form | Protective clothing ties Solid Granular | |
| | Skin protection Physical and chemical propert pearance Physical state Form Colour | Protective clothing ties Solid Granular White | <u>Zr02</u> |
| Ар | Skin protection Physical and chemical propert pearance Physical state Form Colour | Protective clothing ties Solid Granular White None | <u>ZrO2</u> 2,680°C (Merck(15th,2013)) |
| Apr Me Boi | Skin protection Physical and chemical propert pearance Physical state Form Colour Odour | Protective clothing ties Solid Granular White None | |
| App Me Boi and | Skin protection Physical and chemical propert pearance Physical state Form Colour Odour Iting point/freezing point iling point or initial boiling point | Protective clothing ties Solid Granular White None <u>A/203</u> 2072°C | 2,680°C (Merck(15th,2013)) |
| App Me Boi and Fla Upp | Skin protection Physical and chemical propert pearance Physical state Form Colour Odour Iting point/freezing point iling point or initial boiling point d boiling range | Protective clothing ties Solid Granular White None <u>AI2O3</u> 2072°C 2980°C | 2,680℃ (Merck(15th,2013)) 4300℃ |
| App Me Boi and Fla Upp exp | Skin protection Physical and chemical propert pearance Physical state Form Colour Odour Iting point/freezing point d boiling range mmability per/lower flammability or | Protective clothing ties Solid Granular White None <u>AI2O3</u> 2072°C 2980°C No data available | 2,680°C (Merck(15th,2013)) 4300°C No data available |

| Decomposition temperature | No data available | No data available |
|--|---|-------------------|
| рH | No data available | No data available |
| Kinematic viscosity | No data available | No data available |
| Solubility | | |
| Water | Insoluble | Insoluble |
| Other solvents | The slightly soluble in non-polar organic solvent | No data available |
| Partition coefficient: n− octanol∕water | No data available | No data available |
| Vapour pressure | 0.073Pa (mp.) | No data available |
| Density and/or relative density | 3.97 | No data available |
| (Density) | *2.20 as PHILICFINE HP-U (bulk density in a | granular state) |
| Relative vapor density | No data available | No data available |
| Particle characteristics | No data available | No data available |
| Other information | No data available | No data available |
| | | |

SECTION 10 Stability and reactivity

| | <u>AI2O3</u> | <u>Zr02</u> |
|------------------------------------|--|-------------------|
| Reactivity | No data available | No data available |
| Chemical stability | Stability | No data available |
| Possibility of hazardous reactions | Possibility of hazardous reaction is negligible. | No data available |
| Conditions to avoid | Generation of dust, diffusion. | No data available |
| Incompatible materials | Not applicable | No data available |
| Hazardous decomposition products | Not applicable | No data available |
| | | |

SECTION 11 Toxicological information

| | <u>AI2O3</u> | <u>Zr02</u> |
|--|---|------------------------|
| Acute toxicity(oral) | <i>SPECIES: Rat ENDPOINT: LD50 VALUE: > 5000 mg/kg</i> | No data available |
| Acute toxicity(dermal) | No data available | No data available |
| Acute toxicity (Inhalation: Gases) | Solid (GHS definition) | Solid (GHS definition) |
| Acute toxicity (Inhalation: Vapours) | No data available | Solid (GHS definition) |
| Acute toxicity (Inhalation: Dusts and mists) | No data available | No data available |

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| Skin corrosion/irritation | No data available | No data available |
|--|--|--|
| Serious eye damage/irritation | No data available | No data available |
| Respiratory or skin sensitization | No data available | The classification is not possible due to lack of data. Besides, in DFGOT vol. 12 (1999), zirconium and its compounds are classified as a respiratory sensitizer from the information on zirconium and other zirconium compounds, but this substance was classified as "Classification not possible" due to no information on the substance. It is reported that this substance causes Granulomatous skin reactions in humans (DFGOT vol. 12 (1999)). In DFGOT vol. 12 (1999), zirconium and its compounds are classified as a sensitizer (Sah). From the above, this substance was classified in Category 1. |
| Germ cell mutagenicity | The in vivo mutagenicity test has not been carried out, and in the in vitro mutagenicity test, we could only find the Ames test (negative). Therefore we presupposed that we could not classify it for the lack of data. | No data available |
| Carcinogenicity | Not classified because of "A | As described in this hazard class for zirconium (CAS number: 7440–67–7), ACGIH classified zirconium and its compounds in A4 in carcinogenicity (ACGIH (7th, 2001)). Therefore, this substance was classified as "Classification not possible" for this hazard class. |
| Reproductive toxicity | No data available | No data available |
| Specific target organ toxicity(single exposure) | It was set as category 3 (respiratory irritation) from the statement of upper respiratory irritation (ICSC (2000)). | No data available |

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| Specific target organ toxicity(repeated exposu | It was classified into Category 1 according the statement that by occupational exposure of aluminas, pulmonary fibrosis was occurred (EHC (1997)). | As for humans, it is reported that effects on lungs were not observed in workers exposed to this substance (DFGOT vol. 12 (1999)). On the other hand, changes in the lung (asthma, bronchitis, pneumoconiosis, sarcoid granulomatosis, granulomatous interstitial pneumonia) were reported, but it is reported that association with this substance is not clear because they were also exposed to other substances that could cause lung damage (DFGOT vol. 12 (1999)). However, there are cases where zirconium was confirmed in granulomatous lesions in the lungs of three, and extrinsic allergic alveolitis was observed just in one. It is reported that histological examination of the lungs revealed "various stages of epithelioid cell granuloma induced by foreign matter" with foreign matter inclusions in giant cells and fibrosis, and the principal component of foreign matter is zirconium, and similar changes were also found in skin, and granulomatous lesions were observed in mammary and axillary lymph nodes (DFGOT vol. 12 (1999)). As for experimental animals, it is reported that toxic effects were not found in an inhalation toxicity test using rats, rabbits, dogs, guinea pigs, and cats (DFGOT vol. 12 (1999), ACGIH (7th, 2001)). It is also reported that in a diet administration test using rats, toxic effects were not observed (DFGOT vol. 12 (1999)). As above, because effects of this substance cannot be denied completely in humans, the substance was classified as "Classification not possible." |
|---|---|--|
| Aspiration hazard | No data available | No data available |
| Other information | No data available | |

SECTION 12 Ecological information

environment Shortterm(acute)

Persistence and degradablility Bioaccumulative potential

Hazardous to the aquatic environment Longterm(chronic)

Toxicity

city Hazardous to the aquatic

<u>Al2O3</u>

<u>ZrO2</u>

| No data available | No data available | | |
|-------------------|-------------------|-------------------|--|
| No data available | No data available | | |
| No data available | No data available | | |
| No data available | No data available | No data available | |

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| Mobility in soil No data available No data available Hazard to the ozone layer No data available No data available Other adverse effects No data available No data available SECTION 13 Disposal considerations Process is contracted to industrial waste disposers who received approval of a profestural governor. Contaminated container and container is recycled after being cleaned, or is appropriately processed according to the standards of related laws and regulations. When disposing of empty containers, the contents should be completely removed. SECTION 14 Transport information ZrO2 International regulation Not applicable Not applicable UN proper shipping name Not applicable Not applicable UN capplicable Not applicable Not applicable No data available No data available No data available Hazardous to the aquatic environment No data available Not applicable Mot applicable Not applicable Not applicable Not applicable Hazardous to the aquatic environment No data available No data available Mo data available Hazardous to the aquatic env | | | |
|---|------------------------------------|---|--|
| Other adverse effects No data available No data available SECTION 13 Disposal considerations Process is contracted to industrial waste disposers who received approval of a prefectural governor. Contaminated container and container and container is recycled after being cleaned, or is appropriately processed according to the standards of related laws and regulations. When disposing of empty containers, the contents should be completely removed. SECTION 14 Transport information ACO3 ZcO2 International regulation UN number Not applicable Not applicable UN proper shipping name Not applicable Not applicable Not applicable UN proper shipping name Not applicable Not applicable Not applicable UN proper shipping name Not applicable Not applicable Not applicable UN proper shipping name Not applicable Not applicable Not applicable UN classification Not applicable Not applicable Not applicable Transport hazard class No data available No data available No data available Maritime transport in bulk according to IMO instruments No data available No data available Mor data available N | Mobility in soil | No data available | No data available |
| SECTION 13 Disposal considerations Waste treatment methods Process is contracted to industrial waste disposers who received approval of a prefectural governor. Contaminated container and container and containers in recycled after being cleaned, or is appropriately processed according to the standards of related laws and regulations. SECTION 14 Transport information Algos ZO2 International regulation Not applicable UN number Not applicable UN rapport shipping name Not applicable UN classification Not applicable Not applicable Not applicable Hazardous to the aquatic environment No data available Maritime transport in bulk according to Mod tare available No data available Maritime transport in bulk according to Mod at available No data available Action regulatory information non-hazardous materials Land regulation information Not applicable Maritime regulatory information non-hazardous materials Aviation regulatory information non-hazardous materials Aviation regulatory information non-hazardous materials Requires retention of yellow card when transporting, protect from direct sunfight and take on cargo without breakage of container, corrosion and leakage. | Hazard to the ozone layer | No data available | No data available |
| Waste treatment methods Process is contracted to industrial waste disposers who received approval of a prefectural governor. Contaminated container and container and container is recycled after being cleaned, or is appropriately processed according to the standards of related laws and regulations. When disposing of empty containers, the contents should be completely removed. SECTION 14 Transport information Aleos Zrole UN number Not applicable Not applicable Not applicable UN rumber Not applicable Not applicable Not applicable UN classification Not applicable Not applicable Not applicable Transport hazard class Not applicable Not applicable Not applicable Maritime transport in bulk according to IMO instruments No data available No data available No data available Japanese lows and regulations Land regulation information Not applicable No data available Maritime regulatory information non-hazardous materials Special precautions for users When transporting, protect from direct sunlight and take on cargo without breakage of container, corrosion and leakage. Requires retention of yellow card when transporting, protect from direct sunlight and take on cargo without breakage of container, corrosion and leakage. | Other adverse effects | No data available | No data available |
| Contaminated container and contaminated packaging The container is recycled after being cleaned, or is appropriately processed according to the standards of related laws and regulations. When disposing of empty containers, the contents should be completely removed. SECTION 14 Transport information ZO2 International regulation Mot applicable Not applicable UN number Not applicable Not applicable UN classification Not applicable Not applicable UN classification Not applicable Not applicable UN classification Not applicable Not applicable Not applicable Not applicable Not applicable Hazardous to the aquatic environment No data available No data available Japanese lows and regulations No data available No data available Japanese lows and regulations for users When transporting protect from direct sunlight and take on cargo without breakage of container, corrosion and leakage. Requires retention of yellow card when transporting protect from direct sunlight and take on cargo without breakage of container, corrosion and leakage. | SECTION 13 Disposal considerations | | |
| contaminated packaging according to the standards of related laws and regulations. When disposing of empty containers, the contents should be completely removed. SECTION 14 Transport information Image: Content information SECTION 14 Transport information Image: Content information UN number Not applicable Not applicable UN proper shipping name Not applicable Not applicable UN classification Not applicable Not applicable Transport hazard class Not applicable Not applicable Packing group Not applicable Not applicable Hzardous to the aquatic environment No data available No data available Japanese lows and regulations Land regulation information Not applicable Maritime regulatory information non-hazardous materials Special precautions for users When transporting protect from direct sunlight and take on acry without breakage of container, corrosion and leakage. Requires retention of yellow card when transporting, protect from direct sunlight and take on acry without breakage of container, corrosion and leakage. | Waste treatment methods | • | posers who received approval of a |
| ARON ZON International regulation Not applicable Not applicable UN number Not applicable Not applicable UN classification Not applicable Not applicable Transport hazard class Not applicable Not applicable Packing group Not applicable Not applicable Hazardous to the aquatic environment No data available No data available Japanese lows and regulations Land regulation information Not applicable No data available Special precautions for users When transporting protect from direct sungingt nate take on cargo without breakage. Requires retention of yellow card when transporting of ontainer, corrosion and leakage. | | according to the standards of related laws an | d regulations. |
| International regulation Not applicable Not applicable UN number Not applicable Not applicable UN proper shipping name Not applicable Not applicable UN classification Not applicable Not applicable Transport hazard class Not applicable Not applicable Packing group Not applicable Not applicable Hazardous to the aquatic environment No data available No data available Maritime transport in bulk according to IMO instruments No data available No data available Japanese lows and regulations Land regulatori information Not applicable Land regulatory information non-hazardous materials Aviation regulatory information non-hazardous materials Aviation regulatory information non-hazardous materials Special precautions for users When transporting, protect from direct sunlight and take on cargo without breakage of container, corrosion and leakage. Requires retention of yellow card when transporting. | SECTION 14 Transport information | | |
| UN numberNot applicableNot applicableUN proper shipping nameNot applicableNot applicableUN classificationNot applicableNot applicableTransport hazard classNot applicableNot applicablePacking groupNot applicableNot applicableHazardous to the aquatic environmentNo data availableNo data availableMaritime transport in bulk according to IMO instrumentsNo data availableNo data availableJapanese lows and regulationsLand regulation information Not applicable Maritime regulatory information non- hazardous materialsLand regulation information non- hazardous materialsSpecial precautions for usersWhen transporting, protect from direct sunlight and take on cargo without breakage of container, corrosion and leakage.Requires retention of yellow card when transporting, protect from direct sunlight and take on cargo without breakage of container, corrosion and leakage.Requires retention of yellow card when transporting. | | <u>AI2O3</u> | <u>Zr02</u> |
| UN proper shipping name Not applicable Not applicable UN classification Not applicable Not applicable Transport hazard class Not applicable Not applicable Packing group Not applicable Not applicable Hazardous to the aquatic environment No data available No data available Maritime transport in bulk according to IMO instruments No data available No data available Japanese lows and regulations Land regulation information Not applicable Land regulation information non-hazardous materials Aviation regulatory information non-hazardous materials Aviation regulatory information non-hazardous materials Requires retention of yellow card when transporting, protect from direct sunlight and take on cargo without breakage of container, corrosion and leakage. Requires retention of yellow card when transporting. | International regulation | | |
| UN classificationNot applicableNot applicableTransport hazard classNot applicableNot applicablePacking groupNot applicableNot applicableHazardous to the aquatic environmentNo data availableNo data availableMaritime transport in bulk according to IMO instrumentsNo data availableNo data availableJapanese lows and regulationsLand regulation information Not applicable Maritime regulatory information non- hazardous materials Aviation regulatory information non- hazardous materialsLand regulation information non- hazardous materials Aviation regulatory information non- hazardous materialsRequires retention of yellow card when transporting, protect from direct sunlight and take on cargo without breakage of container, corrosion and leakage.Requires retention of yellow card when transporting, protect from direct sunlight and take on cargo without breakage of container, corrosion and leakage. | UN number | Not applicable | Not applicable |
| Transport hazard classNot applicableNot applicablePacking groupNot applicableNot applicableHazardous to the aquatic environmentNo data availableNo data availableMaritime transport in bulk according to IMO instrumentsNo data availableNo data availableJapanese lows and regulationsLand regulation information Not applicable Maritime regulatory information non- hazardous materialsLand regulatory information non- hazardous materialsSpecial precautions for usersWhen transporting, protect from direct sunlight and take on cargo without breakageRequires retention of yellow card when transporting, protect from direct sunlight and take on cargo without breakage | UN proper shipping name | Not applicable | Not applicable |
| Packing groupNot applicableNot applicableHazardous to the aquatic environmentNo data availableNo data availableMaritime transport in bulk according to IMO instrumentsNo data availableNo data availableJapanese lows and regulationsLand regulation information Not applicable Maritime regulatory information non- hazardous materialsLand regulation information non- hazardous materialsSpecial precautions for usersWhen transporting, protect from direct sunlight and take on cargo without breakage of container, corrosion and leakage.Requires retention of yellow card when transporting, protect from direct sunlight and take on cargo without breakage of container, corrosion and leakage. | UN classification | Not applicable | Not applicable |
| Hazardous to the aquatic environment No data available No data available Maritime transport in bulk according to IMO instruments No data available No data available Japanese lows and regulations Land regulation information Not applicable Maritime regulatory information non- hazardous materials Land regulation information non- hazardous materials Special precautions for users When transporting, protect from direct sunlight and take on cargo without breakage of container, corrosion and leakage. Requires retention of yellow card when transporting, protect from direct sunlight and take on cargo without breakage of container, corrosion and leakage. | Transport hazard class | Not applicable | Not applicable |
| environment Maritime transport in bulk according to IMO instruments No data available No data available Japanese lows and regulations Land regulation information Not applicable Maritime regulatory information non-hazardous materials Land regulation information non-hazardous materials Land regulatory information non-hazardous materials Special precautions for users When transporting, protect from direct sunlight and take on cargo without breakage of container, corrosion and leakage. Requires retention of yellow card when transporting, protect from direct sunlight and take on cargo without breakage of container, corrosion and leakage. | Packing group | Not applicable | Not applicable |
| according to IMO instrumentsJapanese lows and regulationsLand regulation information Not applicable Maritime regulatory information non- hazardous materialsLand regulation information Not applicable Maritime regulatory information non- hazardous materialsSpecial precautions for usersWhen transporting, protect from direct sunlight and take on cargo without breakage of container, corrosion and leakage.Requires retention of yellow card when transporting, protect from direct sunlight and take on cargo without breakage of container, corrosion and leakage. | • | No data available | No data available |
| Maritime regulatory information non- hazardous materials Aviation regulatory information non- hazardous materialsMaritime regulatory information non- | • | No data available | No data available |
| sunlight and take on cargo without breakage of container, corrosion and leakage. When transporting, protect from direct sunlight and take on cargo without breakage of container, corrosion and leakage. | Japanese lows and regulations | Maritime regulatory information non- hazardous materials Aviation regulatory information non- | Maritime regulatory information non- hazardous materials Aviation regulatory information non- |
| Special Provisions | Special precautions for users | sunlight and take on cargo without breakage | transporting. When transporting, protect from direct sunlight and take on cargo without breakage |
| | Special Provisions | - | - |

SECTION 15 Regulatoly information (Japan)

<u>Al2O3</u>

<u>Zr02</u>

| Occupational Safety and Health Law | There is it in the case of an application or an application | There is it in the case of an application o an application |
|---|---|---|
| | | |
| PRTR Law | Not applicable | Not applicable |
| Poisonous and Deleterious Substances control Law | Not applicable | Not applicable |
| Labor Standards Act | Not applicable | Not applicable |
| Chemical substances control Law | Not applicable | Not applicable |
| Fire fighting Law | Not applicable | Not applicable |
| Air Pollution Control Act | Not applicable | Not applicable |
| Water Pollution Prevention Act | There is it in the case of an application or an application | Not applicable |
| Water Supply Act | There is it in the case of an application or an application | Not applicable |
| Sewerage Act | Not applicable | Not applicable |
| Marine Pollution Prevention Law | Not applicable | Not applicable |
| Waste Management and Public Cleansing Act | Not applicable | Not applicable |
| Note | Ensure this material in compliance with fede conformity to local regulations. | l ral requirements and ensure |

SECTION 16 Other information

The Safety Data Sheet (SDS) has been prepared based on currently available materials, information and data, and may be revised based on new information. Further, the important points in the SDS are made for the purpose of normal handling. When handling the user product in a specialized manner, take the appropriate safety measures for the application or method. Further, Canon Optron Inc. has paid sufficient attention to the described contents of the SDS, but does not guarantee the accuracy of its contents.

The SDS prepared by our company includes all findings from our investigation for reference. Not applicable to all items listed.

Literature Reference

[WEB site] National Institute of Technology and Evaluation Homepage Japan Advanced Information Center of Safety and Health Homepage Ministry of Health, Labour and Welfare Homepage [Regulatory review Tools] ezCRIC (Japan Chemical Database Ltd)