SDS Number: ES03 Product Name: SiO

SAFETY DATA SHEET

rev. 7.2 Date of Issue 2014/9/1

Revised Date 2022/10/3

SECTION 1 Chemicals and company identification

Product name SiO
Product code ES03

Company name CANON OPTRON INC.

Address 1744-1, Kanakubo, Yuki-shi, Ibaraki-ken, 307-0015 Japan

Section name

Sales Department

Telephone number

+81-296-21-3700

Fax number

+81-296-21-3770

Emergency 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")

No data available

Label element

hazard Pictograms No data available
Signal word No data available
Dangerous goods hazard No data available

information

Precautionary statement

[Safety measures] Obtain special instructions before use.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapours/spray.

Call a poison center or doctor/physician if you feel unwell.

Rinse mouth.

If in eyes:

Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rising.

Immediately call poison center or doctor/physician

[Storage] Store in a well-ventilated place, keep container tightly closed.

Store locked up.

[Disposal] Dispose of contents/container in accordance with national regulations.

[Other hazards] -

SECTION 3 Composition/information on ingredients



SDS Number: ES03 Product Name: SiO

SAFETY DATA SHEET

rev. 7.2 Date of Issue 2014/9/1

Revised Date 2022/10/3

Substance/Mixture

Substance

Chemical name

Silicon oxide

Chemical formula

SiO

Concentration or concentration

range

99.9<

CAS No.

10097-28-6

TSCA Inventry

Silylene, oxo-

EINECS number

233-232-8

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 contaminated clothing. Rinse affected areas with

water/shower.

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.

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.

Canon OPTRON, INC.

SDS Number: ES03 Product Name: SiO

SAFETY DATA SHEET

rev. 7.2 Date of Issue

2014/9/1 2022/10/3 Revised Date

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,

Secondary disaster prevention

measures

No data available

SECTION 7 Handling and storage

Precautions for safe handling

Take measures for equipment as described in "8. Exposure controls/personal Technical measures

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

> Safe storage conditions Store in a well-ventilated place. Keep container tightly closed.

Safety packaging material No data available

SECTION 8 Exposure controls/personal protection

SiO

Permissible concentration

ACGIH No data available

Appropriate engineering controls Use sealed devices, equipment, or a local exhaust ventilation as much as

possible.

Individual protection measures, such as personal protective

equipment

Respiratory protection **Dustproof** mask Hand protection Protective gloves Eye/face protection Dust-proof glasses

Skin protection Protective clothing

SECTION 9 Physical and chemical properties

Appearance

Physical state Solid

Form Pellets, granules

Canon OPTRON, INC.

SDS Number: ES03 Product Name: SiO

SAFETY DATA SHEET

rev. 7.2 Date of Issue 2014/9/1

2022/10/3 Revised Date

Colour Tea black or brown

Odour None

SiO

Melting point/freezing point

Boiling point or initial boiling point

and boiling range

Flammability

Upper/lower flammability or

explosive limits

Flash point

Auto-ignition temperature

Decomposition temperature

Kinematic viscosity

Solubility

Water

Other solvents

Partition coefficient: n-

octanol/water

Vapour pressure

Density and/or relative density

(Density)

Relative vapor density

Particle characteristics

Other information

1702℃

1880℃

No data available

Insoluble

No data available

No data available

No data available

2.13

No data available

No data available

No data available

SECTION 10 Stability and reactivity

SiO

No data available Reactivity

Chemical stability It is stable in storage conditions and normal handling.

Possibility of hazardous reactions Do not react in the storage conditions and normal handling.

It becomes SiO2 by reacting with oxygen when heated.

Conditions to avoid No data available

Incompatible materials No data available

Hazardous decomposition products

No data available

Canon OPTRON, INC.

SDS Number: ES03 Product Name: SiO

SAFETY DATA SHEET

rev. 7.2 Date of Issue 2014/9/1

Revised Date 2022/10/3

SECTION 11 Toxicological information

SiO

Acute toxicity(oral) No data available No data available Acute toxicity(dermal) Acute toxicity (Inhalation: Gases) No data available Acute toxicity (Inhalation: No data available Vapours) Acute toxicity (Inhalation: Dusts No data available and mists) Skin corrosion/irritation No data available No data available Serious eye damage/irritation Respiratory or skin sensitization No data available No data available Germ cell mutagenicity Carcinogenicity No data available No data available Reproductive toxicity No data available Specific target organ toxicity(single exposure) No data available Specific target organ toxicity(repeated exposure) Aspiration hazard No data available Other information No data available

SECTION 12 Ecological information

<u>SiO</u>

Toxicity

Hazardous to the aquatic environment Shortterm(acute) Hazardous to the aquatic environment Longterm(chronic)

Persistence and degradablility

Bioaccumulative potential

Mobility in soil

Hazard to the ozone layer

Other adverse effects

No data available

No data available

No data available

No data available

No data available 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.



SDS Number: ES03 Product Name: SiO

SAFETY DATA SHEET

Date of Issue 2014/9/1 rev. 7.2

Revised Date 2022/10/3

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

<u>SiO</u>

International regulation

| UN number | Not applicable |
|---|-------------------|
| UN proper shipping name | Not applicable |
| UN classification | Not applicable |
| Transport hazard class | Not applicable |
| Packing group | Not applicable |
| Hazardous to the aquatic environment | No data available |
| Maritime transport in bulk according to IMO instruments | No data available |
| Japanese lows and regulations | No data available |
| Special precautions for users | No data available |
| Special Provisions | - |

SECTION 15 Regulatoly information (Japan)

SiO

| Occupational Safety and Health Law | No data available |
|---|-------------------|
| PRTR Law | No data available |
| Poisonous and Deleterious Substances control Law | No data available |
| Labor Standards Act | No data available |
| Chemical substances control Law | No data available |
| Fire fighting Law | No data available |
| Air Pollution Control Act | No data available |
| Water Pollution Prevention Act | No data available |
| Water Supply Act | No data available |
| Sewerage Act | No data available |
| Marine Pollution Prevention Law | No data available |
| Waste Management and Public Cleansing Act | No data available |
| | |

SDS Number: ES03 Product Name: SiO

SAFETY DATA SHEET

rev. 7.2

Date of Issue 2014/9/1

Revised Date

2022/10/3

Note

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

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

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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]
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