SDS Number: ES04

Product Name: SiO2 (Fused)

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SECTION 1 Chemicals and company identification

Product name SiO2 (Fused)

Product code ES04

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.

[First-aid measures] If swallowed

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] -

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SECTION 3 Composition/information on ingredients

Substance/Mixture Substance

Chemical name Silica, vitreous

Chemical formula SiO2 (Fused)

Concentration or concentration

range

ncentration 99.9<

CAS No. 60676-86-0

TSCA Inventry Silica, vitreous

EINECS number 262-373-8

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

neighboring fires.

Unsuitable extinguishing media Because a fire might spread through the outskirts, It avoid direct stick irrigation.

Specific hazards In the case of fires, a toxic decomposition product may occur.

Restrict access to the area around the fire location to persons other than those

involved with the fire.

If it is not dangerous to do so, move the container out of the fire area.

Special protective equipment for

firefighters

On the occasion of fire extinguishing work, it wears appropriate personal

protective equipment and rescue suit.

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SECTION 6 Accidental release measures

> Personal precautions, protective equipment, and emergency

procedures

It prohibits the entrance except the person concerned.

The worker wears appropriate personal protective equipment (in item of "8.revelation prevention and protection measures" reference) and avoids eyes,

contact and inhalation to skin.

It avoids an outflow to the environmental average of the product to have **Environmental precautions** 

possibilities to influence neighboring environment.

Methods and material for containment and cleaning up It collects it in sky containers as if sweeping the scattered thing, and gathering you, or being able to absorb it with a vacuum sweeper, and from scattering not

pitching a camp.

The prohibition of handling and eating and drinking in neighboring of the storage

It prevents the inflow to a drainage, a sewer, a basement or the closedown place.

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

It prevents you from producing dust. Refer to "10. Stability and reactivity."

Avoidance of contact Hygiene measures

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

> The storage area shall be equipped with the necessary lighting and ventilation Safe storage conditions

equipment to store or handle dangerous or hazardous substances. It avoids direct

rays of the sun and keeps it in the cool and dark space.

Safety packaging material It uses the container which it can seal up without damage and the leak.

**SECTION 8** Exposure controls/personal protection

SiO2 (Fused)

Permissible concentration

TLV-TWA: 0.1 mg/m³ **ACGIH** 

(respiratory) (amorphous silica) (2015 version)

Appropriate engineering controls

In the work shop which dust produces, it uses a device, an apparatus sealed up

by all means or a local ventilator.

Individual protection measures, such as personal protective equipment



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Respiratory protection Dustproof mask

Protective gloves Hand protection

Eye/face protection Dust-proof glasses

Skin protection Protective clothing

SECTION 9 Physical and chemical properties

Appearance

Physical state Solid

Form Pellets, granules

Colour Transparency

Odour None

SiO2 (Fused)

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

1610℃

2,503° C (760 mmHg) (CAS No.: 7631-86-9) (NITE-CHRIP (2015))

No data available

Noninflammability (ACGIH (7th,2001))

Noninflammability (ACGIH (7th,2001))

Noninflammability (ACGIH (7th,2001))

No data available

As synthetic amorphous silica (a CAS number: 7631-86-9): 4-9 (SIDS (2006))

No data available

Insoluble

No data available

No data available

0 mmHg(20°C) (HSFS (2002))

2.2

No data available

No data available

No data available

SECTION 10 Stability and reactivity

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SiO2 (Fused)

Reactivity It is very stable for heat

Chemical stability No data available

Possibility of hazardous reactions No data available

Conditions to avoid No data available

Incompatible materials

No data available

Hazardous decomposition products No data available

SECTION 11 Toxicological information

SiO2 (Fused)

Acute toxicity(oral) No data available

Acute toxicity(dermal) No data available

Acute toxicity (Inhalation: Gases) Solid (GHS definition)

Acute toxicity (Inhalation: Solid (GHS definition)
Vapours)

Acute toxicity (Inhalation: Dusts No data available

and mists)

Skin corrosion/irritation

No data available

Serious eve damage/irritation

No data available

Serious eye damage/irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

This substance has no information on carcinogenicity either in humans or in experimental animals.

But the carcinogenicity classification result Group 3 in IARC for amorphous silica (IARC 68 (1997)) is judged to be applicable because this substance belongs to amorphous silica.

Namely, it was classified as "Classification not possible" in this hazard class.

Reproductive toxicity

No data available

Specific target organ toxicity(single No data available

exposure)

Specific target organ

No data available
toxicity(repeated exposure)

Aspiration hazard No data available

Other information No data available

SECTION 12 Ecological information

SiO2 (Fused)

Toxicity

Cation CANON OPTRON, INC.

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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

SECTION 13 Disposal considerations

> Waste treatment methods Process is contracted to industrial waste disposers who received approval of a

prefectural governor.

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

### SiO2 (Fused)

International regulation

**UN** number

UN proper shipping name

**UN** classification

Transport hazard class

Packing group

Hazardous to the aquatic

environment

Maritime transport in bulk according to IMO instruments Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

No data available

No data available

Land regulation information Not applicable

Maritime regulatory information non-hazardous materials Aviation regulatory information non-hazardous materials

Special precautions for users

Japanese lows and regulations

Requires retention of yellow card when transporting.

When transporting, protect from direct sunlight and take on cargo without

breakage of container, corrosion and leakage.

Do not stack heavy good thereupon.

Special Provisions

SECTION 15 Regulatoly information (Japan)

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Occupational Safety and Health Not applicable Law PRTR Law Not applicable Poisonous and Deleterious Not applicable Substances control Law Labor Standards Act Not applicable Chemical substances control Law Not applicable Fire fighting Law Not applicable Air Pollution Control Act Not applicable Water Pollution Prevention Act Not applicable Not applicable Water Supply Act Sewerage Act Not applicable Marine Pollution Prevention Law There is it in the case of an application or an application Waste Management and Public Not applicable Cleansing Act 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.

### 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)