SDS Number: ES24

Product Name: LUMILEAD SiO

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SECTION 1 Chemicals and company identification

Product name LUMILEAD SiO

Product code ES24

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 Silicon oxide

Chemical formula

Concentration or concentration

range

99.5%<

233-232-8

SiO

CAS No. 10097-28-6

TSCA Inventry Silylene, oxo-

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

EINECS number

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.

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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

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

<u>SiO</u>

Permissible concentration

ACGIH No data available

possible.

Individual protection measures, such as personal protective

equipment

Hand protection Protective gloves

Skin protection Protective clothing

SECTION 9 Physical and chemical properties

Appearance

Physical state Solid

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Form Granular

Colour Exhibits colors of blue, green, orange, and purple

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

Ηα

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°C

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

Reactivity No data available

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

Incompatible materials No data available

Hazardous decomposition products

No data available

No data available

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SECTION 11 Toxicological information

Si0

Acute toxicity(oral)

Acute toxicity(dermal)

Acute toxicity (Inhalation: Gases)

Acute toxicity (Inhalation:

Vapours)

Acute toxicity (Inhalation: Dusts

and mists)

Skin corrosion/irritation

Serious eye damage/irritation

Respiratory or skin sensitization

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity(single

exposure)

Specific target organ toxicity(repeated exposure)

Aspiration hazard

Other information

No data available

SECTION 12 Ecological information

SiO

Toxicity

Hazardous to the aquatic environment Short-

term(acute)

Hazardous to the aquatic environment Longterm(chronic)

Persistence and degradablility

Bioaccumulative potential

Mobility in soil

Hazard to the ozone laver

Other adverse effects

No data available

SECTION 13 Disposal considerations

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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

<u>SiO</u>

International regulation

Not applicable UN number UN proper shipping name Not applicable **UN** classification Not applicable Transport hazard class Not applicable Packing group Not applicable Hazardous to the aquatic No data available 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 Special Provisions

SECTION 15 Regulatoly information (Japan)

SiO

No data available Occupational Safety and Health Law PRTR Law No data available Poisonous and Deleterious No data available Substances control Law 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

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Waste Management and Public

Cleansing Act

No data available

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

[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)