

CANON OPTRON INC.  
 SDS Number: ES24  
 Product Name: LUMILEAD SiO

# SAFETY DATA SHEET

rev. 6.5 Date of Issue 2014/9/1  
 Revised Date 2018/6/6

## SECTION 1 Chemicals and company identification

Chemical identifier	LUMILEAD SiO
SDS number	ES24
Company name	CANON OPTRON INC.
Address	1744-1, Kanakubo, Yuki-shi, Ibaraki-ken, 307-0015 Japan
Section name	Internal Control Promotion Div.
Telephone number	+81-296-21-3700 (Sales Dept.)
Fax number	+81-296-21-3770
Emergency telephone number	+81-296-21-3700 (Sales Dept.)
Recommended uses and restrictions on 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

Pictogram (Symbol)	No data available
Signal word	No data available
Hazard statement	No data available

### 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 rinsing.  
 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.

## SECTION 3 Composition and information ingredients

Substance/Mixture	Substance
	<hr/>

CANON OPTRON INC.

SDS Number: ES24  
 Product Name: LUMILEAD SiO

# SAFETY DATA SHEET

rev. 6.5 Date of Issue 2014/9/1  
 Revised Date 2018/6/6

Chemical name or generic name	<i>Silicon oxide</i>
Chemical formula	<i>SiO</i>
CAS No.	<i>10097-28-6</i>
Concentration or concentration range	99<
TSCA Inventory	<i>Silylene, oxo-</i>
EINECS number	<i>233-232-8</i>
Radioactive information	It does not use a radioactive substance as a material. Thus, evidence of ionizing radiation occurs is not present.

## SECTION 4 First-aid measures

Inhalation	It is possible to move to fresh air victim immediately and keep at rest in a position comfortable for breathing. If you feel bad, you should contact your doctor.
Skin	Take off all contaminated clothing immediately Remove /. I flush for 15 minutes or more with soap and plenty of water. If symptoms blisters and pain comes, get medical attention if necessary.
Eye	Be flush eyes for at least 15 minutes with clean water immediately. If you are using the contact lenses, as long as it is not fixed, it can be washed and removed. Be subject to medical attention without fail.
Ingestion	Rinse mouth immediately. Be subject to medical attention without fail.
Protection of first aiders	Rescuers Wear protective equipment protective eyewear, such as protective gloves.

## SECTION 5 Fire-fighting measures

Extinguishing media	The product itself does not burn.
Extinguishing media are unsuitable	No data available
Specific hazards	No data available
Specific extinguishing methods	The movable container, and transferred to a safe place as soon as possible in case of surrounding fire.
Protection of fire-fighters	In fire fighting, I want to wear (gloves, glasses, mask) the appropriate protective equipment.

## SECTION 6 Accidental release measures

Personal precautions, protective equipment, and emergency procedures	Wear it (which specify what suited the nature of the product) protective equipment, such as spray or on skin, we do not want to dust inhalation, the gas at the time of work.
Environmental precautions	Do not flowing in rivers and sewage directly spillage.
Methods and materials for containment and methods and materials for cleaning up	And collected in drums or paper bags are collected to wear or have rake those leaked. I to absorb in saw-dust or sediment residue content of the small amount of recovery after.

CANON OPTRON INC.

SDS Number: ES24

Product Name: LUMILEAD SiO

## SAFETY DATA SHEET

rev. 6.5 Date of Issue 2014/9/1

Revised Date 2018/6/6

Secondary disaster prevention measures	No data available
--	-------------------

## SECTION 7 Handling and storage precautions

## Handling

Technical measures	I wear the appropriate protective equipment safety glasses, protective gloves, etc.. After handling Wash hands, face, etc., and gargle.
Safety handling precautions	When handling, to handle in place with equipment for general ventilation or local exhaust under.

## Storage

Safe storage conditions	Store tightly closed container in a well-ventilated place.
Safety packaging material	No data available

## SECTION 8 Exposure controls and personal protection

SiO

## Permissible concentration

## ACGIH

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

## Engineering controls

To use devices that are sealed as much as possible, local exhaust ventilation or equipment.

## Personal protective equipment

Respiratory protection	Dust mask
Hand protection	Protective glove
Eye protection	Dust-proof glasses
Skin and body protection	Protective clothing

## SECTION 9 Physical and chemical properties

## Appearance

Physical state	Solid
Form	Granular
Colour	Exhibits colors of blue, green, orange, and purple

## Odour

None

SiO

## pH

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

## Melting point/Freezing point

1702°C

## Boiling point/Initial boiling point and boiling range

1880°C

## Flash point

None

CANON OPTRON INC.

SDS Number: ES24

Product Name: LUMILEAD SiO

## SAFETY DATA SHEET

rev. 6.5 Date of Issue 2014/9/1

Revised Date 2018/6/6

Evaporation rate	<i>No data available</i>
Flammability (solid, gas)	<i>No data available</i>
Explosive limits	
LEL	<i>None</i>
UEL	<i>None</i>
Vapour pressure	<i>No data available</i>
Vapour density (air = 1)	<i>No data available</i>
Specific gravity (Relative density)	<i>2.13</i>
(Density)	
Solubility	
Water	<i>Insoluble</i>
Other solvents	<i>No data available</i>
n-octanol/Water partition coefficient	<i>No data available</i>
Auto-ignition temperature	<i>No data available</i>
Decomposition temperature	<i>No data available</i>
Viscosity (Coefficient of viscosity)	<i>No data available</i>
Other data	<i>None</i>

## SECTION 10 Stability and reactivity

**SiO**

Reactivity	<i>No data available</i>
Chemical stability	<i>It is stable in storage conditions and normal handling.</i>
Hazardous reactions	<i>Do not react in the storage conditions and normal handling. It becomes SiO<sub>2</sub> by reacting with oxygen when heated.</i>
Conditions to avoid	<i>No data available</i>
Incompatible materials	<i>No data available</i>
Hazardous decomposition products	<i>No data available</i>

## SECTION 11 Hazard information

**SiO**

Acute toxicity(oral)	<i>No data available</i>
Acute toxicity(dermal)	<i>No data available</i>
Acute toxicity(inhalation)	<i>No data available</i>
Skin corrosion/irritation	<i>No data available</i>
Eye damage/eye irritation	<i>No data available</i>

CANON OPTRON INC.

SDS Number: ES24

Product Name: LUMILEAD SiO

## SAFETY DATA SHEET

rev. 6.5 Date of Issue 2014/9/1  
Revised Date 2018/6/6

Respiratory sensitization/Skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity(single exposure)	No data available
Specific target organ toxicity(repeated exposure)	No data available
Aspiration hazard	No data available
Others	None

## SECTION 12 Ecological information

SiO

## Ecotoxicity

Fish	No data available
Crustaceantoxicity(single exposure)	No data available
Algae	No data available
Other organisms	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazard to the ozone layer	No data available
Others	No data available

## SECTION 13 Notes on disposal

Waste from residues	Entrust the process to industrial waste disposal contractor has received a license from the governor.
Contaminated container and contaminated packaging	Recycle or in the clean container and take appropriate disposal in accordance with the criteria of the relevant legislation sequence municipality.

## SECTION 14 Transport information

SiO

## International regulation

UN classification	No data available
UN number	Not applicable
UN proper shipping name	None
Packing group	No data available

CANON OPTRON INC.

SDS Number: ES24

Product Name: LUMILEAD SiO

## SAFETY DATA SHEET

rev. 6.5 Date of Issue 2014/9/1  
Revised Date 2018/6/6

Japanese laws and regulations

*None*Conditions and specific safety  
measures of transport*No data available*

## SECTION 15 Regulatory information (Japan)

SiO

PRTR Law

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

Explosives control Law

*No data available*

High-pressure gas security Law

*No data available*

Fire fighting Law

*No data available*

Chemical substances control Law

*No data available*

Ship safety Law

*No data available*

Aviation Law

*No data available*

Prevention of marine pollution Law

*No data available*

Pneumoconiosis Law

*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.

## Literature Reference

## [References]

Industrial Safety and Health Act All Data of MSDS Target Substances: The Chemical Daily Co., Ltd (2003)

Poisonous and Deleterious Substances Control Act All Data of MSDS Target Substances: The Chemical Daily Co., Ltd (2003)

Pollutant Release and Transfer Register All Data of MSDS Target Substances: The Chemical Daily Co., Ltd (2003)

Recommendations for Allowable Concentrations (Fiscal 2017): Japan Society for Occupational Health Journal of Occupational Health, Vol. 59 2017

## [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)