SDS Number: E029
Product Name: OH-14

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SECTION 1 Chemicals and company identification

Product name OH-14

Product code EO29

Company name CANON OPTRON INC.

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

+81-296-21-3700

Section name Sales Department

Telephone number +81-296-21-3700

Fax number +81-296-21-3770

Use Vacuum deposition material

SECTION 2 Hazards identification

Health hazards

Emergency telephone tumber

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

Aerosols

Oxidizing gases

Not applicable

Not applicable

Not applicable

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

Classification not possible

Classification not possible

contact with water,emit flammable

gases

Oxidizing liquids Not applicable

Oxidizing solids

Classification not possible

Corrosive to metals

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)

Skin corrosion/irritation Classification not possible

Serious eye damage/eye irritation

Respiratory sensitization

Skin sensitization

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Reproductive toxicity, effects on or via lactation

Specific target organ toxicity(single exposure)

Specific target organ toxicity(repeated

exposure)

Hazardous to the aquatic environment

Short-term(acute)

Aspiration hazard

Hazardous to the aquatic environment

Hazardous to the ozone layer

Classification not possible

Category 2

Classification not possible

Classification not possible

Long-term(chronic)

Classification not possible

Classification not possible

Label elements

hazard Pictograms

Environmental hazards

Health Hazard



Signal word

Warning

Dangerous goods hazard information

Causes damage to organs through prolonged or repeated exposure Lungs.

Precautionary statements

[Safety measures]

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash hands thoroughly after handling.

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

[First-aid measures]

Get medical advice/attention if you feel unwell.



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[Storage]

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

[Other hazards] -

SECTION 3 Composition/information on ingredients

Substance/Mixture Mixture

Chemical name Dilanthanum dititanium heptaoxide Aluminum oxide

Chemical formula La2Ti2O7 A/2O3

Concentration or concentration

range

La2Ti2O7 : 95-99 Al2O3 : 1-5

CAS No. 12031-47-9 1344-28-1

TSCA Inventry Lanthanum titanium oxide (La2Ti2O7) Aluminum oxide (Al2O3)

EINECS number 234-751-2 215-691-6

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

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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.

The leakage may not directly flow into rivers or sewage.

Environmental precautions

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

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>La2Ti2O7</u> <u>Al2O3</u>

Permissible concentration

ACGIH No data available

(Particulate asbestos-free, less than 1% crystalline silica) TLV-TWA 10mg/m³

Appropriate engineering controls

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

Individual protection measures, such as personal protective

equipment

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Hand protection Protective gloves

Skin protection Protective clothing

SECTION 9 Physical and chemical properties

Appearance

Physical state Solid

Form Granular
Colour Dark gray
Odour None

<u>La2Ti2O7</u> <u>Al2O3</u>

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

рΗ

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

About 1800 ℃	2072℃
No data available	2980°C
No data available	No data available
No data available	No data available
No data available	Noncombustibility
No data available	Noncombustibility
No data available	No data available
No data available	No data available
No data available	No data available

No data available	Insoluble
No data available	The slightly soluble in non-polar organic solvent
No data available	No data available
No data available	0.073Pa (mp.)
5.9	3.97

No data available	No data available
No data available	No data available
No data available	No data available

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SECTION 10 Stability and reactivity

	<u>La2Ti2O7</u>	<u>Al2O3</u>
Reactivity	No data available	No data available
Chemical stability	It is stable in storage conditions and normal handling.	Stability
Possibility of hazardous reactions	No data available	Possibility of hazardous reaction is negligible.
Conditions to avoid	No data available	Generation of dust, diffusion.
Incompatible materials	No data available	Not applicable
Hazardous decomposition products	No data available	Not applicable

#### SECTION 11 Toxicological information

	<u>La2Ti2O7</u>	<u>Al2O3</u>
Acute toxicity(oral)	No data available	SPECIES: Rat ENDPOINT: LD50 VALUE: > 5000 mg/kg
Acute toxicity(dermal)	No data available	No data available
Acute toxicity (Inhalation: Gases)	No data available	Solid (GHS definition)
Acute toxicity (Inhalation: Vapours)	No data available	No data available
Acute toxicity (Inhalation: Dusts and mists)	No data available	No data available
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	No data available
Germ cell mutagenicity	No data available	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.
Carcinogenicity	No data available	Not classified because of "A
Reproductive toxicity	No data available	No data available
Specific target organ toxicity(single exposure)	No data available	It was set as category 3 (respiratory irritation) from the statement of upper respiratory irritation (ICSC (2000)).

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Specific target organ toxicity(repeated exposure) No data available It was classified into Category 1 according the statement that by occupational exposure of aluminas, pulmonary fibrosis was occurred (EHC (1997)). No data available No data available

Aspiration hazard

Other information No data available

SECTION 12 **Ecological information** 

> <u> Al2O3</u> La2Ti2O7

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

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

> La2Ti2O7 Al203

International regulation

**UN** number

UN proper shipping name

**UN** classification

Transport hazard class

Packing group

Hazardous to the aquatic environment

Not applicable	Not applicable
Not applicable	Not applicable
No data available	No data available

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Maritime transport in bulk No data available No data available according to IMO instruments No data available Japanese lows and regulations Land regulation information Not applicable Maritime regulatory information nonhazardous materials Aviation regulatory information nonhazardous materials Special precautions for users No data available When transporting, protect from direct sunlight and take on cargo without breakage of container, corrosion and leakage. Special Provisions

#### SECTION 15 Regulatoly information (Japan)

	<u>La2Ti2O7</u>	<u>AI2O3</u>
Occupational Safety and Health Law	No data available	There is it in the case of an application or an application
PRTR Law	No data available	Not applicable
Poisonous and Deleterious Substances control Law	No data available	Not applicable
Labor Standards Act	No data available	Not applicable
Chemical substances control Law	No data available	Not applicable
Fire fighting Law	No data available	Not applicable
Air Pollution Control Act	No data available	Not applicable
Water Pollution Prevention Act	No data available	There is it in the case of an application or an application
Water Supply Act	No data available	There is it in the case of an application or an application
Sewerage Act	No data available	Not applicable
Marine Pollution Prevention Law	No data available	Not applicable
Waste Management and Public Cleansing Act	No data available	Not applicable
Note	Ensure this material in compliance with federal 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.



conformity to local regulations.

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#### Literature Reference

[WEB site]
National Institute of Technology and Evaluation Homepage
Japan Advanced Information Center of Safety and Health Homepage
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[Regulatory review Tools]
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