SDS Number: EC02 Product Name: CeF3

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SECTION 1 Chemicals and company identification

Product name CeF3
Product code EC02

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 Cerium fluoride

CeF3 Chemical formula

Concentration or concentration

99.5%<

CAS No. 7758-88-5

Cerium fluoride (CeF3) TSCA Inventry

EINECS number 231-841-3

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

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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

Methods and material for containment and cleaning up

The leakage may not directly flow into rivers or sewage.

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

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

Safety packaging material No data available

SECTION 8 Exposure controls/personal protection

CeF3

Permissible concentration

TLV-TWA 2.5 mg/m³ **ACGIH**

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

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SECTION 9 Physical and chemical properties

Appearance

Physical state Solid

Form Pellets, granules

Colour Pale yellow

Odour None

CeF3

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

pН

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

1430°C

2327°C

No data available

It melt a very small amount

No data available

No data available

No data available

6.16

No data available

No data available

No data available

SECTION 10 Stability and reactivity

CeF3

Reactivity

No data available

Raised F, and HF when heated.

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

Raised F, and HF when heated.

Conditions to avoid No data available

Incompatible materials No data available

Hazardous decomposition products No data available

SECTION 11 Toxicological information

CeF3

Acute toxicity(oral)	Oral - guinea pig LDLo: 600mg/kg
A 	C.b. at an analysis to the street of the str
Acute toxicity(dermal)	Subcutaneous administration - frog LDLo: 1680mg/kg Subcutaneous administration - guinea pig LDLo: 3000mg/kg
Acute toxicity (Inhalation: Gases)	No data available
Acute toxicity (Inhalation, Gases)	INO data available
Acute toxicity (Inhalation: Vapours)	No data available
Acute toxicity (Inhalation: Dusts and mists)	No data available
Skin corrosion/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	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
Other information	No data available

SECTION 12 Ecological information

CeF3

Toxicity

Hazardous to the aquatic environment Short-term(acute)

No data available



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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

CeF3

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

Japanese lows and regulations

Special precautions for users

Special Provisions

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

No data available

SECTION 15 Regulatoly information (Japan)

CeF3

Occupational Safety and Health

PRTR Law

Not applicable

There is it in the case of an application or an application

Canon OPTRON, INC.

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Not applicable Substances control Law Labor Standards Act There is it in the case of an application or an application Chemical substances control Law Not applicable Fire fighting Law Not applicable Air Pollution Control Act Not applicable Water Pollution Prevention Act There is it in the case of an application or an application Water Supply Act There is it in the case of an application or an application Sewerage Act There is it in the case of an application or an application

Marine Pollution Prevention Law Not applicable

Waste Management and Public Cleansing Act

Poisonous and Deleterious

Note Ensure this material in compliance with federal requirements and ensure

conformity to local regulations.

Not applicable

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)

