SDS Number: EY02 Product Name: YF3

# SAFETY DATA SHEET

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Revised Date 2022/10/3

SECTION 1 Chemicals and company identification

Product name YF3
Product code EY02

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] -

SECTION 3 Composition/information on ingredients



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Substance/Mixture

Chemical name

Chemical formula YF3

Concentration or concentration

range

99.9<

Substance

Yttrium fluoride

13709-49-4 CAS No.

Yttrium fluoride (YF3) TSCA Inventry

237-257-5 **EINECS** number

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

> Remove person to fresh air and keep comfortable for breathing. Inhalation

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.

Rinse mouth Ingestion

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

> This product itself is not flammable. Suitable extinguishing media

No data available Unsuitable extinguishing media 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.

Environmental precautions The leakage may not directly flow into rivers or sewage.



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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>YF3</u>

Permissible concentration

ACGIH TLV-TWA: 1 mg/m<sup>3</sup>

(as yttrium and compound, yttrium)

(2015 version)

possible.

Individual protection measures, such as personal protective

equipment

Respiratory protection Dustproof mask
Hand protection Protective gloves

Skin protection Protective clothing

SECTION 9 Physical and chemical properties

Appearance



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Physical state Solid

Form Granular
Colour White
Odour None

<u>YF3</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

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

1387℃

No data available

No data available

No data available

No data available

Noncombustibility

•

No data available

No data available

No data available

Insoluble

No data available

No data available

No data available

4.01

No data available

No data available

No data available

SECTION 10 Stability and reactivity

<u>YF3</u>

Reactivity No data available

Possibility of hazardous reactions

To generate toxic hydrogen fluoride gas and fluorine gas decomposes on heating.

Conditions to avoid High-temperature and humidity

Incompatible materials No data available

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Hazardous decomposition products To generate toxic hydrogen fluoride gas and fluorine gas decomposes on heating.

#### SECTION 11 Toxicological information

### YF3

Acute toxicity(oral)	No data available
Acute toxicity(dermal)	No data available
Acute toxicity (Inhalation: Gases)	No data available
Acute toxicity (Inhalation: Vapours)	No data available
Acute toxicity (Inhalation: Dusts and mists)	No data available
Skin corrosion/irritation	Nose, throat, trachea is stimulated by inhalation of dust.
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

### <u>YF3</u>

#### 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

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>YF3</u>

#### International regulation

UN number	Not applicable
UN proper shipping name	Not applicable
UN classification	Not applicable
Transport hazard class	Not applicable
Packing group	Not applicable
Hazardous to the aquatic environment	No data available
Maritime transport in bulk according to IMO instruments	No data available
Japanese lows and regulations	Land regulation information Not applicable Maritime regulatory information non-hazardous materials Aviation regulatory information non-hazardous materials
Special precautions for users	No data available

#### **SECTION 15** Regulatoly information (Japan)

**Special Provisions** 

### <u>YF3</u>

Occupational Safety and Health Law	There is it in the case of an application or an application
PRTR Law	Not applicable
Poisonous and Deleterious Substances control Law	Not applicable
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

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Waste Management and Public

Cleansing Act

Not applicable

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)