SDS Number: EC01C

Product Name: CaF2 (Optical Crystal)

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SECTION 1 Chemicals and company identification

Product name CaF2(Optical Crystal)

Product code EC01C

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 Optical crystal 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 Calcium fluoride

CaF2 Chemical formula

Concentration or concentration

99.9%<

CAS No. 7789-75-5

Calcium fluoride (CaF2) TSCA Inventry

EINECS number 232-188-7

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

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,

etc.

Secondary disaster prevention

containment and cleaning up

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

CaF2

Permissible concentration

ACGIH No data available

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

Canon OPTRON, INC.

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Skin protection Protective clothing

SECTION 9 Physical and chemical properties

Appearance

Physical state Solid

Plate, lens, disk Form

Colour White Odour None

CaF2

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

1360℃

2451°C

No data available

0.0016g/100g(18°C)

No data available

No data available

No data available

3.18

No data available

No data available

No data available

SECTION 10 Stability and reactivity

Chemical stability

CaF2

Reactivity

No data available

It is stable in storage conditions and normal handling.

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Possibility of hazardous reactions

Do not react in the storage conditions and normal handling.

Conditions to avoid

No data available

Incompatible materials

Acid

Hazardous decomposition products

By crossed with acid and generate hydrogen fluoride gas.

SECTION 11 Toxicological information

CaF2

Oral - Rat LD50: 4250mg/kg Acute toxicity(oral)

Oral - guinea pig LDLo:> 5000mg/kg Intraperitoneal - Mouse LD50: 2638mg/kg Oral - guinea pig LDLo:> 5000mg/kg

Acute toxicity(dermal)

No data available

Acute toxicity (Inhalation: Gases)

No data available

Acute toxicity (Inhalation:

No data available

Vapours)

Acute toxicity (Inhalation: Dusts

No data available

and mists)

Which can stimulate the skin and eyes, causing inflammation.

Skin corrosion/irritation

No data available

Serious eye damage/irritation Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

ACGIH: A4

Substance that can not be classified as a carcinogen to humans. IARC: Group 3

Can not be classified for carcinogenicity to humans.

Reproductive toxicity

No data available

Specific target organ toxicity(single

exposure)

No data available

Specific target organ

toxicity(repeated exposure)

(Mottled teeth, fluorine bone deposition) fluorine chronic toxicity

Aspiration hazard

No data available

Other information

No data available

SECTION 12 Ecological information

CaF2

Toxicity

Hazardous to the aquatic environment Shortterm(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

CaF2

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

No data available

No data available

SECTION 15 Regulatoly information (Japan)

CaF2

Occupational Safety and Health

Law

PRTR Law

Poisonous and Deleterious Substances control Law

No data available

No data available

No data available

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Labor Standards Act No data available No data available Chemical substances control Law No data available Fire fighting Law 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 Waste Management and Public No data available Cleansing Act 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

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