SDS Number: EM02 Product Name: MgF2

## SAFETY DATA SHEET

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SECTION 1 Chemicals and company identification

Product name MgF2
Product code EM02

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 Magnesium fluoride

Chemical formula MgF2

Concentration or concentration

range

99.9<

CAS No. 7783-40-6

TSCA Inventry Magnesium fluoride (MgF2)

EINECS number 231-995-1

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.

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**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.

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,

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.

Refer to "10. Stability and reactivity." Avoidance of contact

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

MgF2

Permissible concentration

**ACGIH** TLV-TWA: 2.5 mg/m³(as F)

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

possible.

Individual protection measures, such as personal protective equipment

> **Dustproof** mask Respiratory protection

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 White Odour None

MgF2

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: noctanol/water

Vapour pressure

(Density)

Relative vapor density

Particle characteristics

Density and/or relative density

Other information

1260°C

2226°C

No data available

Insoluble

No data available

No data available

No data available

3.15

※ (granular product) 3.15 2.6−2.9 (pellet) as MgF2

No data available

No data available

No data available

**SECTION 10** Stability and reactivity

MgF2

No data available Reactivity

Chemical stability It is stable in storage conditions and normal handling.

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Possibility of hazardous reactions

Harmful hydrogen fluoride is produced by the reaction with acid.

Conditions to avoid

High-temperature and humidity

Incompatible materials

Oxidizing agents, strong acids

Hazardous decomposition products

Hydrogen fluoride

SECTION 11 Toxicological information

MgF2

Acute toxicity(oral)

Oral - Rat LD50: 2,330 mg / kg Oral - guinea pig LDLo: 1,000 mg / kg

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

No data available

Serious eye damage/irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: Group 3
It can not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

No data available

Specific target organ toxicity(single exposure)

No data available

0 '5 '

Specific target organ toxicity(repeated exposure)

No data available

Aspiration hazard

No data available

Other information

No data available

SECTION 12 Ecological information

MgF2

Toxicity

Hazardous to the aquatic environment Shortterm(acute) Hazardous to the aquatic No data available

environment Longterm(chronic) No data available

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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

### MgF2

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)

### MgF2

Occupational Safety and Health Law

PRTR Law

Poisonous and Deleterious Substances control Law

Labor Standards Act

Not applicable

Not applicable

Not applicable

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

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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	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)