SDS Number: E015 Product Name: OS-50

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SECTION 1 Chemicals and company identification

Product name OS-50

Product code EO15

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

mation

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 Titanium oxide

Chemical formula Ti305

Concentration or concentration

range

99.9<

CAS No. 12065-65-5

TSCA Inventry No data available

EINECS number No data available

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,

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.

Save strict prohibition of high temperature and high humidity. Do not store

together with oxidants and strong acids.

Safety packaging material No data available

SECTION 8 Exposure controls/personal protection

<u>Ti3O5</u>

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

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 Granular

Colour Blue black or black

Odour None

Ti305

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 ℃

No data available

Insoluble

No data available

No data available

No data available

About 4.0

★ (bulk density of the granular product) from 2.10 to 2.35 as OS-50

No data available

No data available

No data available

SECTION 10 Stability and reactivity

Ti305

Reactivity

No data available

Chemical stability

It is stable in storage conditions and normal handling.

It is TiO2 by reacting with oxygen and heated to 300 $^{\circ}\!C$ than in air.

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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	No data available
Hazardous decomposition products	No data available

SECTION 11 Toxicological information

Ti3O5

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	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

Ti305

Toxicity

Hazardous to the aquatic environment Shortterm(acute) Hazardous to the aquatic environment Longterm(chronic)

Persistence and degradablility

Bioaccumulative potential

Mobility in soil

No data available

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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

Ti305

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 No data available Hazardous to the aquatic environment No data available Maritime transport in bulk according to IMO instruments Japanese lows and regulations No data available Special precautions for users No data available

SECTION 15 Regulatoly information (Japan)

Special Provisions

Ti305

Occupational Safety and Health Law

PRTR Law
Poisonous and Deleterious
Substances control Law

Labor Standards Act

Chemical substances control Law

Fire fighting Law

Air Pollution Control Act

Water Pollution Prevention Act

No data available

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Water Supply Act No data available No data available Sewerage Act 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

[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)