SDS Number: ET03 Product Name: TiO

## SAFETY DATA SHEET

rev. 7.2 Date of Issue 2014/9/1

Revised Date 2022/10/3

SECTION 1 Chemicals and company identification

Product name TiO
Product code ET03

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



SDS Number: ET03 Product Name: TiO

## SAFETY DATA SHEET

rev. 7.2 Date of Issue 2014/9/1

Revised Date 2022/10/3

Substance/Mixture

Chemical name Titanium oxide

Chemical formula TiO

Concentration or concentration

range

99.9<

Substance

CAS No. 12137-20-1

TSCA Inventry Titanium oxide (TiO)

EINECS number 235-236-5

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

 $\label{thm:continuity} \hbox{Suitable extinguishing media} \qquad \quad \hbox{This product itself is not flammable}.$ 

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

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.



SDS Number: ET03 Product Name: TiO

## SAFETY DATA SHEET

rev. 7.2 Date of Issue 2014/9/1

Revised Date 2022/10/3

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>TiO</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

Hand protection Protective gloves

Skin protection Protective clothing

SECTION 9 Physical and chemical properties

Appearance

Physical state Solid

Canon OPTRON, INC.

SDS Number: ET03 Product Name: TiO

## SAFETY DATA SHEET

rev. 7.2 Date of Issue 2014/9/1

2022/10/3 Revised Date

Form Pellets, granules

Colour Tea gold Odour None

TiO

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

Ηα

Kinematic viscosity

Solubility

Water

Other solvents

Partition coefficient: n-

octanol/water

Vapour pressure

Density and/or relative density

(Density)

1750℃

3000°C

No data available

Insoluble

No data available

No data available

No data available

4.88

%(bulk density of the granular product) 4.1 to 4.5 (pellet) from 2.1 to 2.6 as

Relative vapor density No data available

Particle characteristics No data available

Other information No data available

SECTION 10 Stability and reactivity

TiO

No data available Reactivity

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

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

Canon OPTRON, INC.

SDS Number: ET03 Product Name: TiO

## SAFETY DATA SHEET

rev. 7.2

Date of Issue 2014/9/1 Revised Date 2022/10/3

SECTION 11 Toxicological information

Acute toxicity(oral)

Acute toxicity(dermal)

Acute toxicity (Inhalation: Gases)

Acute toxicity (Inhalation: Vapours)

Acute toxicity (Inhalation: Dusts

and mists)

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Skin corrosion/irritation
Serious eye damage/irritation

Respiratory or skin sensitization

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity(single exposure)

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Specific target organ toxicity(repeated exposure)

Aspiration hazard

Other information

<u>TiO</u>

No data available

SECTION 12 Ecological information

<u>TiO</u>

Toxicity

Hazardous to the aquatic environment Short-

term(acute)

Hazardous to the aquatic environment Long-term(chronic)

Persistence and degradablility

Bioaccumulative potential

Mobility in soil

Hazard to the ozone layer

Other adverse effects

No data available

SECTION 13 Disposal considerations

ET03 SDS Number: Product Name: TiO

# SAFETY DATA SHEET

2014/9/1 rev. 7.2 Date of Issue

Revised Date 2022/10/3

Waste treatment methods Process is contracted to industrial waste disposers who received approval of a

prefectural governor.

Contaminated container and The container is recycled after being cleaned, or is appropriately processed contaminated packaging 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>TiO</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	No data available
Special precautions for users	No data available
Special Provisions	-

#### SECTION 15 Regulatoly information (Japan)

### <u>TiO</u>

Occupational Safety and Health Law	No data available
PRTR Law	No data available
Poisonous and Deleterious Substances control Law	No data available
Labor Standards Act	No data available
Chemical substances control Law	No data available
Fire fighting Law	No data available
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

SDS Number: ET03 Product Name: TiO

# SAFETY DATA SHEET

rev. 7.2 Date of Issue 2014/9/1

2022/10/3 Revised Date

Waste Management and Public

Cleansing Act

No data available

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)