

CANON OPTRON INC.
SDS Number: ET02
Product Name: Ti2O3

SAFETY DATA SHEET

rev. 8.0 Date of Issue 2013/10/16
Revised Date 2024/3/15

SECTION 1 Chemicals and company identification

Product name	Ti2O3
Product code	ET02
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 number	+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 information	No data available
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 rinsing.
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

CANON OPTRON INC.

SDS Number: ET02
Product Name: Ti2O3

SAFETY DATA SHEET

rev. 8.0 Date of Issue 2013/10/16
Revised Date 2024/3/15

Substance/Mixture	Mixture
Chemical name	Titanium oxide
Chemical formula	Ti2O3
Concentration or concentration range	99.9<
CAS No.	1344-54-3
TSCA Inventory	Titanium oxide (Ti2O3)
EINECS number	215-697-9
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 rinsing. 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

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.

CANON OPTRON INC.

SDS Number: ET02
Product Name: Ti2O3

SAFETY DATA SHEET

rev. 8.0 Date of Issue 2013/10/16
Revised Date 2024/3/15Methods and material for
containment and cleaning upThe 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.

Safety packaging material

No data available

SECTION 8 Exposure controls/personal protection

Ti2O3

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

SECTION 9 Physical and chemical properties

Appearance

Physical state

Solid

CANON OPTRON INC.

SDS Number: ET02
Product Name: Ti2O3

SAFETY DATA SHEET

rev. 8.0 Date of Issue 2013/10/16
Revised Date 2024/3/15

Form	Pellets, granules
Colour	Blue-violet or blue black
Odour	None

Ti2O3

Melting point/freezing point	Decomposed at 2130 °C
Boiling point or initial boiling point and boiling range	No data available
Flammability	No data available
Upper/lower flammability or explosive limits	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	No data available
Solubility	
Water	Insoluble
Other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Vapour pressure	No data available
Density and/or relative density (Density)	2.8~3.2
Relative vapor density	No data available
Particle characteristics	No data available
Other information	No data available

SECTION 10 Stability and reactivity

Ti2O3

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 °C than in air.
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: ET02
Product Name: Ti2O3

SAFETY DATA SHEET

rev. 8.0 Date of Issue 2013/10/16
Revised Date 2024/3/15

SECTION 11 Toxicological information

Ti2O3

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	There is a possibility that irritates the eyes, the skin and the respiratory tract.
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

Ti2O3

<p>Toxicity</p> <p>Hazardous to the aquatic environment Short-term(acute)</p> <p>Hazardous to the aquatic environment Long-term(chronic)</p>	<p>No data available</p> <p>No data available</p>
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazard to the ozone layer	No data available
Other adverse effects	No data available

CANON OPTRON INC.

SDS Number: ET02
Product Name: Ti2O3

SAFETY DATA SHEET

rev. 8.0 Date of Issue 2013/10/16
Revised Date 2024/3/15

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

Ti2O3

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 laws and regulations	No data available
Special precautions for users	No data available
Special Provisions	-

SECTION 15 Regulatory information (Japan)

Ti2O3

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

CANON OPTRON INC.

SDS Number: ET02
Product Name: Ti2O3

SAFETY DATA SHEET

rev. 8.0 Date of Issue 2013/10/16
Revised Date 2024/3/15Waste 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)