

SAFETY DATA SHEET

TITANIUM DIOXIDE (RUTILE) OPTICAL CRYSTAL

According to Regulation (EC) No.1907/2006 (REACH)



1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

CHEMICAL NAME: Titanium Dioxide TiO₂
SYNONYMS, TRADE NAMES: Rutile
DESCRIPTION: Inorganic Crystalline pieces
USAGE: Optical Material
APPEARANCE: Clear transparent solid. No odour
SUPPLIER: CRYSTRAN LTD, 1 Broom Road Business Park, Poole, Dorset UK BH12 4PA
☎ +44 1202 307650 ✉ sales@crystran.co.uk

2. HAZARDS IDENTIFICATION



No Hazardous Product as specified in Directive 67/548/EEC

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT NAME	CAS number	%	EC number (EINECS)	EU index	UN number
Titanium Dioxide	13463-67-7	100%	236-675-5	-	-

4. FIRST AID MEASURES

EYES: Irrigate thoroughly with water for at least 15 minutes. Obtain medical attention.
SKIN: Wash off thoroughly with soap and water.
INHALATION: Remove to uncontaminated area. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may administer oxygen. Keep affected person warm and at rest. Obtain medical attention.
INGESTION: Induce vomiting if conscious and as directed by a properly qualified personnel. Wash out mouth thoroughly with water. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS. Obtain Medical Attention.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not Ignitable. Not Applicable
UNUSUAL FIRE HAZARDS: None
EXTINGUISHING MEDIA: As appropriate to the environment

6. ACCIDENTAL RELEASE MEASURES

CONTAMINATION CLEANUP: Wear suitable protective clothing & equipment as listed under Exposure / Personal protection. Take up and containerize for proper disposal. Avoid making dust. Containerize any cleaning materials used for proper disposal.

7. HANDLING AND STORAGE

USAGE PRECAUTIONS: Avoid skin contact. Protect against physical damage and avoid generating dust.
STORAGE PRECAUTIONS: Keep away from foodstuffs.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Protective gloves made of polyvinyl alcohol (PVA) are required. Use of a laboratory coat is suggested. Safety goggles or safety glasses with side shields are required if there is any possibility of chipping or dust creation. Respirators must be worn when the threshold limit is exceeded. Provide adequate general mechanical ventilation, and local exhaust ventilation. When handling quantities of this material, be sure to wear appropriate protective equipment as described. Eye wash should be readily available. Wash thoroughly after handling. Do not take internally. Avoid breathing dust when generated. For persons with sensitive existing medical conditions, medical advice should be sought before employing on tasks involving exposure to this material.

EXPOSURE LIMITS OES, 10mg/m³ total dust : 5 mg/m³ as respirable dust

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Registered in England No.2863378

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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE :	Clear glassy geometric shapes, no odour.
pH AQUEOUS SOLUTION:	Not determined
BOILING POINT (760mm Hg):	> 2500°C
MELTING POINT:	1840°C
FLASH POINT:	Not Applicable
FLAMMABILITY:	Not Applicable
EXPLOSIVE PROPERTIES:	Not Applicable
SPECIFIC GRAVITY:	4.26
VAPOUR PRESSURE:	Not Applicable
SOLUBILITY IN WATER:	Practically insoluble

10. STABILITY AND REACTIVITY

STABILITY:	Stable under normal conditions of storage and use.
HAZARDOUS DECOMPOSITION:	None recorded.
MATERIALS TO AVOID:	No particular reactions

11. TOXICOLOGICAL INFORMATION

TOXIC DOSE - LD50	10000mg/kg (oral rat)
CARCINOGENICITY	No evidence of carcinogenic properties
MUTAGENICITY/TERATOGENICITY	No evidence of mutagenic or teratogenic effects
TOXICOLOGICAL FINDINGS	Not known

12. ECOLOGICAL INFORMATION

Unlikely to cause any environmental damage.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Chemical residues are generally classified as special waste and regulations vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company.

14. TRANSPORT INFORMATION

Not subject to transport regulations

15. REGULATORY INFORMATION

CLASSIFICATION:	Not classified as dangerous.
LABEL FOR SUPPLY:	None

RISK PHRASES:	None.
SAFETY PHRASES:	S22-24/25 - Do not breathe dust. Avoid contact with skin and eyes.

16. OTHER INFORMATION

REVISION DATE: May 2015 Supercedes issue of Feb 2008 (Changes in Section: 2, 3, (2 & 3 reversed), 8, 11)

The above information is believed to be correct but does not purport to be all inclusive and must be used only as a guide.

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