MSDS (Material Safety Data Sheet)
Titanium Dioxide Rutile (TiO2)
(FR-767)

Section 1 : Product and Company Identification

Synonyms: Titanium Dioxide Rutile

CAS No.: 13463-67-7

Molecular Weight: 79.90

Chemical Formula: TiO2

HS Number : 32061110

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Section 2 : Composition/Information on Ingredients

Component :	TiO2	ZrO2	Al2O3
CAS number :	13463-67-7	7631-86-9	1344-28-1
HS Number :	32061110		
Percentage:	≥93.0%	0-2%	0-5%
Hazardous :	No		

Section 3 : Hazards Identification

EMERGENCY OVERVIEW

CAUSES IRRITATION TO EYES
NFPA Ratings (Scale 0-4): HEALTH=0 FIRE=0 REACTIVITY=0
EC Classification (Assigned):
R 36/38,EC Classification may be inconsistent with independently-researched data.
Color : white
Physical Form: powder
Odor: odorless
Major Health Hazards: respiratory irritation, eye irritation, mucous membrane irritation

POTENTIAL HEALTH EFFECTS:

INHALATION:
Short Term Exposure: no.
Long Term Exposure: same as effects reported in short term exposure.
SKIN CONTACT:

Short Term Exposure : no.
Long Term Exposure : same as effects reported in short term exposure.
EYE CONTACT:
Short Term Exposure : irritation.
Long Term Exposure : same as effects reported in short term exposure.
INGESTION:
Short Term Exposure : no.
Long Term Exposure : same as effects reported in short term exposure.
CHRONIC EXPOSURE : RESULTS OF EPIDEMIOLOGY STUDY SHOWED THAT EMPLOYEES WHO HAD BEEN EXPOSED TO TITANIUM DIOXIDE PIGMENTS WERE AT NO GREATER RISK OF DEVELOPING LUNG CANCER THAN WERE EMPLOYEES WHO NOT BEEN EXPOSED TO TITANIUM DIOXIDE

CARCINOGEN STATUS:N
OSHA: N
NTP: N
IARC: N

Section 4 : First Aid Measures

Inhalation: Remove to fresh air.

Ingestion: If swallowed, give several glasses of water to drink. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact: Wipe off excess material from skin then flush skin with plenty of water. Remove contaminated clothing and shoes.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally.

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NOTE TO PHYSICIAN: For inhalation, consider oxygen.

Section 5 : Fire Fighting Measures

Fire: Not considered to be a fire hazard. Will not burn

Explosion: Sealed containers may rupture when heated.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire. Water spray may be used to keep fire exposed containers cool.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.. Sealed containers of this material may rupture at moderate temperatures (release of water vapor).

Section 6 : Accidental Release Measures

Soil Release: Dig holding area such as lagoon, pond or pit for containment. Cover with plastic sheet or tarp to minimize spreading and protect from contact with water.
Water Release: just wash out
Occupational Release: Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

Section 7 : Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage; observe all warnings and precautions listed for the product.

Section 8 : Exposure Controls/Personal Protection

Airborne Exposure Limits: None established.

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved): For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls.

Eye Protection: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

Clothing: Wear appropriate clothing.
Gloves: impervious gloves or specified by manufacturer

Section 9 : Physical and Chemical Properties

Appearance: white powder

Odor: Odorless.

Color: white

Solubility: InSoluble in water.

Molecular Weight: 79.90
Molecular Formula: TiO2
Specific Gravity: 3.9-4.2
pH: neutral
% Volatiles by volume @ 21C (70F): 0
Vapor Density (Air=1): No information found.
Vapor Pressure (mm Hg): No information found.
Evaporation Rate (BuAc=1): No information founded
Coefficient of Water/Oil Distribution: Not available

Section 10 : Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Reactivity:. Stable at normal temperatures and pressure
Conditions to Avoid: Stable at normal temperatures and pressure
Polymerization: Will not polymerize.
Hazardous Decomposition Products: not occur
Hazardous Polymerization: Will not occur.

Section 11 : Toxicological Information

Irritation Data: ND
Toxicity Data: ND.
Local Effects: irritation eye
Tumorigenic Data: ND
Mutagenic Data: ND
Reproductive Effects Data: ND

Section 12 : Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 13 : Transport Information

No hazard class in the world

Section 14: Ecological information

No harmful effects known other than those associated with suspended inert solids in water.

Section 15: Regulatory Information

SARA 313 Title III: Section 311/312 Hazardous Categories: None
Section 313 Toxic Chemicals: None
OSHA Status: This product is not considered hazardous.
TSCA Status: Components of this product are listed in the TSCA Inventory.
California Proposition 65: Not listed
CERCLA Reportable Quantity: None
International Regulations: Canadian Ingredient Disclosure List: Components are listed.
Canadian WHMIS: This material is not a controlled substance under WHMIS.
European Community: This material is not subject to classification according to EEC Directive 67/548/EEC.

Section 16: Other Information

Date: 1 March 2011

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. QIANJIANG FANGYUAN TITANIUM INDUSTRY CO., LTD shall not be held liable for any damage resulting from handling or from contact with the above product.