

# MATERIAL SAFETY DATA SHEET

## TiO2 RUTILE

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### CHEMTREC # 800-424-9300

#### CHEMICAL IDENTIFICATION

PRODUCT NAME: Titanium oxide  
CHEMICAL NAME : Titanium oxide  
CAS REGISTRY NUMBER : 13463-67-7  
OTHER CAS REGISTRY NOS. : 1309-63-3  
MOLECULAR FORMULA : O<sub>2</sub>-Ti  
MOLECULAR WEIGHT : 79.90

#### SKIN/EYE IRRITATION DATA

TYPE OF TEST : Standard Draize test  
ROUTE OF EXPOSURE : Administration onto the skin  
SPECIES OBSERVED : Human  
DOSE/DURATION : 300 ug/3D (Intermittent)  
REACTION SEVERITY : Mild  
REFERENCE :  
85DKA8 "Cutaneous Toxicity, Proceedings of the 3rd Conference, 1976," Drill,  
V.A., and P. Lazar, eds., New York, Academic Press, Inc. 1977  
Volume(issue)/page/year: -,127,1977

#### TUMORIGENIC DATA

TYPE OF TEST : TCl<sub>o</sub> - Lowest published toxic concentration  
ROUTE OF EXPOSURE : Inhalation  
SPECIES OBSERVED : Rodent - rat  
DOSE/DURATION : 250 mg/m<sup>3</sup>/6H/2Y-l

#### TOXIC EFFECTS :

Tumorigenic - Carcinogenic by RTECS criteria  
Lungs, Thorax, or Respiration - tumors

#### REFERENCE :

TXAPA9 Toxicology and Applied Pharmacology. (Academic Press, Inc., 1 E. First St., Duluth, MN 55802) V.1- 1959- Volume(issue)/page/year: 79,179,1985

#### U.S. STANDARDS AND REGULATIONS

OSHA PEL (Gen Indu):8H TWA 15 mg/m<sup>3</sup>, total dust  
CFRGBR Code of Federal Regulations. (U.S. Government Printing Office, Supt. of Documents, Washington, DC 20402) Volume(issue)/page/year: 29,1910.1000,1994

#### OCCUPATIONAL EXPOSURE LIMITS

OEL-AUSTRALIA:TWA 10 mg/m<sup>3</sup> JAN 1993  
OEL-BELGIUM:TWA 10 mg/m<sup>3</sup> JAN 1993  
OEL-UNITED KINGDOM:TWA 10 mg/m<sup>3</sup> (total dust) JAN 1993

#### STATUS IN U.S.

EPA GENETOX PROGRAM 1988, Negative: Carcinogenicity-mouse/rat; Cell transform.- SA7/SHE  
EPA TSCA Section 8(b) CHEMICAL INVENTORY  
EPA TSCA Section 8(d) unpublished health/safety studies  
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JUNE 1998

#### First aid measures

General advise if inhaled : consult physician if irrigation of respiratory passages occurs  
on skin contact : wash with soap and water  
on contact with eyes : flush with water  
on ingestion : seek medical advice immediately  
note to physician : treat symptomatically

#### Fire fighting measures

Suitable extinguishing media : water mist, dry powder, foam, carbon dioxide  
Unsuitable extinguishing media  
For safety reasons : full water jet  
The following can be off in a fire : none found  
Special protective equipment : use breathing apparatus, wear full protective suit

Further information : collect contaminated fire fighting water separately, must not be discharged into the drains

### **Accident release measures**

Personal precautions : Clothing suitable to avoid skin contact, local ventilation  
And dust mask recommended

Environmental precautions : do not discharge into the drains/surface  
water/groundwater

Method for cleaning up : collect onto absorbent, place in suitable container

### **Handling and storage**

Handling : keep dry, avoid extremely crash when transporting

Protection against fire and explosion : not applicable

Storage : store into iron drums with inner plastic bags, keep dry

### **Exposure control and personal protection**

Personal protective equipment

Respiratory protection : respirators

Hand protection : rubber gloves

Eye protection : goggles

Body protection : light protection clothing

General safety and hygiene measures : avoid contact with eyes and skin, Do not inhale dust

### **Other Information**

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