



Section 1. Product and Company Identification

Product Name Titanium Dioxide Rutile
CAS Number 13463-67-7

Parchem - fine & specialty chemicals
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CHEMTEL
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Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture
Not classified as a hazardous substance or mixture

GHS Label Elements
Pictograms: N/A
Signal word: N/A

Hazard and precautionary statements
None

The most important adverse physicochemical effects: Not applicable.
The most important adverse human health effects: Not applicable.

The most important adverse environmental effects
Label elements: Not applicable.
Other hazards: Not applicable.

Section 3. Composition / Information on Ingredients

Common Name Titanium Dioxide Rutile
Formula TiO₂
CAS Number 13463-67-7

COMPONENT	CAS NUMBER	CONCENTRATION
Titanium Dioxide	13463-67-7	>= 92%
Aluminum Oxide	1344-28-1	2.6 – 3.5%
Silicon Dioxide	7631-86-9	0.8 – 3.3%



Section 4. First Aid Measures

Inhalation: Move to a fresh air atmosphere. In case of persistent symptoms, consult a doctor.

Eyes: Rinse immediately with plenty of water. If irritation persists, seek medical attention.

Skin: Wash with soap and water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

Ingestion: Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.

Section 5. Firefighting Measures

Extinguishing Media: Use any media appropriate for combustible material in the area.

Special Firefighting Procedures: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Specific risks: Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Section 6. Accidental Release Measures

Personal Precautions: Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Do not touch or walk through spilled material. Avoid breathing vapors or mists.

Environmental Precautions: Prevent run-off from entering ground, storm sewers and ditches, which leads to natural waterways.

Cleaning Methods: Prevent further leakage or spillage if safe to do so Pick up and transfer to properly labeled containers.

Section 7. Handling and Storage

Precautions for safe handling: Handle in accordance with good industrial hygiene and safety Practice. Ensure adequate ventilation, especially in confined Areas. Avoid generation of dust. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Use personal protection recommended in Section 8. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product

Conditions for safe storage, including any incompatibilities: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat.

Section 8. Exposure Controls / Personal Protection

Control Parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Denmark	European Union
Aluminum Oxide	TWA: 1 mg/m ³ Respirable fraction	-	-	TWA: 5 mg/m ³ TWA: 2 mg/m ³	-

Chemical Name	Norway	United Kingdom	Australia	Austria	Belgium
Silicon Dioxide	-	-	2 mg/m ³	TWA: 4 mg/m ³ TWA: 0.3 mg/m ³	-
Aluminum Oxide	-	-	10 mg/m ³	STEL: 10 mg/m ³ TWA: 5 mg/m ³	-

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Skin Protection: Wear suitable protective clothing

Hand Protection: Wear protective gloves.

Environmental Exposure Controls: Do not allow material to contaminate ground water system.

Eye Protection: Wear safety glasses with side shields (or goggles).

Section 9. Physical and Chemical Properties

Appearance: Powdered solid

Color: White

Odor: Odorless

Odor threshold: Not available

pH: 6.5 - 8.5

Melting point/range: > 1800°C

Boiling point/range: 2500 - 3000°C

Flash point: Not applicable

Evaporation rate: Not determined

Flammability (solid, gas): Not applicable

Ignition temperature: Not applicable

Upper/lower flammability/explosive limits: Not determined

Vapor pressure (20°C): Not applicable



Vapor density: Not applicable
Relative Density (25°C): Not determined.
Density: 4.1g/cm
Bulk density (kg/m³): Not determined.
Water solubility (g/l) at 20°C: Practically insoluble
n-Octanol/Water (log Pow): Not applicable
Auto-ignition temperature: Not applicable
Decomposition temperature: Not applicable
Viscosity, dynamic (mPa s): Not applicable
Explosive properties: Not applicable
Oxidizing properties: Not applicable
Fat solubility (solvent- oil to be specified): Insoluble
Surface tension: Not applicable
Dissociation constant in water (pKa): Not applicable
Oxidation-reduction Potential: Not available

Section 10. Stability and Reactivity

Reactivity: The substance is stable under normal storage and handling conditions.
Chemical Stability: This product is stable under normal conditions.
Possibility of hazardous reactions: Under normal conditions, not hazardous reactions will occur.
Conditions to Avoid: Extremes of temperature and direct sunlight
Incompatible materials: None known based on information supplied
Hazardous decomposition products: None known based on information supplied

Section 11. Toxicological Information

Inhalation: Inhalation of vapors in high concentration may cause irritation of respiratory system
Eye contact: Contact with eyes may cause irritation
Skin Contact: Substance may cause slight skin irritation
Ingestion: Ingestion may cause irritation to mucous membranes

Acute Toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Silicon dioxide (CAS#: 7631 -86-9)	> 5000 mg/kg bw(Rat)	-	> 2.08 mg/L air/4h

Skin corrosion/Irritation: Not irritating
Serious eye damage/irritation: Not irritating
Respiratory or skin sensitization: Not sensitizing
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified



STOT- single exposure: Not classified
STOT-repeated exposure: Not classified
Aspiration hazard: Not classified

Section 12. Ecological Information

Ecotoxicity

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
Silicon dioxide (CAS#: 7631 -86-9)	440: 72 h Pseudokirchneriella subcapitata mg/L EC50	-	-

Persistence and degradability: No information available
Bioaccumulative potential: No information available
Mobility in soil: No information available

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

D.O.T. Shipping Name: Not regulated
Air - ICAO (international Civil Aviation Organization): Not regulated
Sea - IMDG (International Maritime Dangerous Goods): Not regulated
Transport in Bulk According to Annex II of MARPOL 73/38 and the IBC Code: Not regulated

Section 15. Regulatory Information

International Inventories

Component	AICS	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	TSCA
Titanium dioxide	X	X	X	X	X	X	X	X
Aluminum Oxide	X	X	X	X	X	X	X	X
Silicon Dioxide	X	X	X	X	X	X	X	X
Zirconium Dioxide	X	X	X	X	X	X	X	X

X = Listed



US Federal Regulations

SARA 313: No information available

SARA 311/312 Hazard Categories: No information available

CWA (Clean Water Act): No information available

CERCLA: No information available

US State Regulations

California Proposition 65: No information available

U.S. State Right-to-Know Regulations: No information available

Section 16. Other Information

Disclaimer: 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.

REVISION DATE: 7/17/2017

