



SYNTHETIC RUTILE

CHEMICAL NAME / FORMULA :
Titanium Dioxide / TiO_2

FORMATION :
Crystalline

PROPERTIES:

Appearance : Crystals of Golden Yellow colour without odour

Flammability : Non-combustible

Solubility : Insoluble in water / Bulk density : 1.6-1.7 gm/ml

INSTALLED CAPACITY

42,000 TPA

INPUT

Synthetic Rutile, Charcoal and Hydrochloric acid from Caustic Soda plant.

OUTPUT

Synthetic Rutile

SPECS :

1	Titanium Dioxide (as TiO_2)	95.0 % Min
2	Fe_2O_3	3.4 % Max
3	SiO_2	1.2% Max
4	Al_2O_3	0.40 % Max
5	Loss on Ignition	0.5 % Max
6	Moisture	0.50 % Max



PACKAGING AND HANDLING

Material can be packed and handled in HDPE bags or in bulk for transportation and marketing.



TRANSPORTATION CLASSIFICATION

C.A.S. No. 013463677 and ITC (HS) Classification No. 282300



MATERIAL SAFETY DATA

Given Overleaf



END USERS

TiO_2 Pigment, Welding electrodes, Paints, Titanium Sponge etc.



MATERIAL SAFETY DATA

NAME OF THE PRODUCT	Synthetic Rutile
COMPOSITION/COMPONENTS	Natural mineral upgraded by acid leaching to achieve $\text{TiO}_2 >95\%$ and reducing Fe $<2.5\%$.
HAZARDS IDENTIFICATION	EYE – Solid or dust is moderate eye irritant due to its abrasive action. Otherwise normally non-hazardous.
FIRST AID MEASURES	EYE – Hold eyes open and rinse continuously with gentle stream of clean running water. Seek medical attention if irritation or soreness persists. Skin – No specific ai. Remove contaminated clothing and wash off thoroughly with soap water.
MEASURES FOR FIRE FIGHTING	No firing property exists.
MEASURES IN CASE OF UNINTENTIONAL RELEASE	Use goggles or glasses while handling. Avoid generating dusts. Sweep or vacuum up and reuse.
HANDLING AND STORAGE	Easy to handle like general commodity. No specific storage requirements but should be designed to minimize creation of dust.
PHYSICAL & CHEMICAL PROPERTIES	Golden yellow colour mineral without specific odour. Insoluble in water.
STABILITY AND REACTIVITY	Being inert, fully stable without reactivity.
INFORMATION OF TOXICOLOGY	Non-Toxic.
INFORMATION ABOUT WASTE DISPOSAL	Disposable to landfill to prevent generation of dust, subject to local regulations.
INFORMATION ABOUT TRANSPORT	Transportable as general commodity.
STATUTORY REGULATORY INFORMATION	Shipping Name : Synthetic Ryutile.
OTHER INFORMATION	ITC (HS) Classification No. 282300 CAS No. 013463677