SYNTHETIC RUTILE

CHEMICAL NAME / FORMULA:
Titanium Dioxide / TiO₂

FORMATION:
Crystalline

INSTALLMENT CAPACITY
42,000 TPA

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

OUTPUT
Synthetic Rutile

PROPERTIES:
Appearance: Crystals of Golden Yellow colour without odour
Flammability: Non-combustible
Solubility: Insoluble in water / Bulk density: 1.6-1.7 gm/ml

SPECS:

<table>
<thead>
<tr>
<th></th>
<th>Specifications</th>
<th>Specified Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Titanium Dioxide (as TiO₂)</td>
<td>95.0 % Min</td>
</tr>
<tr>
<td>2</td>
<td>Fe₂O₃</td>
<td>3.4 % Max</td>
</tr>
<tr>
<td>3</td>
<td>SiO₂</td>
<td>1.2% Max</td>
</tr>
<tr>
<td>4</td>
<td>Al₂O₃</td>
<td>0.40 % Max</td>
</tr>
<tr>
<td>5</td>
<td>Loss on Ignition</td>
<td>0.5 % Max</td>
</tr>
<tr>
<td>6</td>
<td>Moisture</td>
<td>0.50 % Max</td>
</tr>
</tbody>
</table>

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

TiO₂ Pigment, Welding electrodes, Paints, Titanium Sponge etc.
### NAME OF THE PRODUCT
- Synthetic Rutile

### COMPOSITION/COMPONENTS
- Natural mineral upgraded by acid leaching to achieve TiO₂ >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 Rutile.

### OTHER INFORMATION
- ITC (HS) Classification No. 282300
- CAS No. 013463677