1. PRODUCT IDENTIFICATION

PRODUCT NAME: FERROTINT TITANIUM DIOXIDE WHITE
PRODUCT CODE: F31, F31UB, F31W
COLOUR INDEX NAME: PIGMENT WHITE 6
COLOUR INDEX NUMBER: 77891
CHEMICAL NAME: TITANIUM DIOXIDE
CHEMICAL FORMULA: TiO₂
CAS NUMBER: 13463-67-7

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>CAS#</th>
<th>% BY WEIGHT</th>
<th>EXPOSURE LIMITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>TITANIUM DIOXIDE (TiO₂)</td>
<td>13463-67-7</td>
<td>98-99</td>
<td>ACGIH TLV: 5mg/m³ TWA</td>
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<td></td>
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<td>OSHA PEL: 10 mg/m³ TWA</td>
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</tbody>
</table>

3. PHYSICAL PROPERTIES AND CHEMICAL PROPERTIES

APPEARANCE: Solid, Powder
COLOUR: White
ODOR: Odorless
pH: 6.0-8.0
BOILING POINT: Not Applicable
MELTING POINT: Above 1800°C
VAPOR PRESSURE: Not Applicable
SOLUBILITY IN WATER: Insoluble
SPECIFIC GRAVITY: 3.8-4.0 gm/ml
BULK DENSITY: 0.50 gm/ml
4. FIRST AID MEASURES

IN CASE OF

INHALATION: If inhaled, removed to fresh air. If not breathing, gives artificial respiration. If breathing is difficult, give oxygen.

SKIN CONTACT: Immediately wash skin with soap and water.

EYE CONTACT: Immediately wash eyes with large amount of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers.

INGESTION: Vomiting may be resulted if sufficient quantity is swallowed, seek medical assistance.

IN ALL CASE: Consult a physician and wash/discard contaminated clothing after use. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

FLASH POINT Not applicable

DECOMPOSITION PRODUCTS None

APPROPRIATE EXTINGUISHING MEDIA Use appropriate extinguishing media for the combustible material involved in the fire.

6. ACCIDENTAL RELEASE MEASURES

INDIVIDUAL PRECAUTIONS: Collect and seal in properly labeled containers for disposal.

ENVIRONMENT PRECAUTIONS: Disposal should be in accordance with local State or National legislation.

CLEANING METHODS: Vacuum or use wet clean-up techniques and place waste material in closed container.
7. **HANDLING AND STORAGE CONDITIONS**

**HANDLING:** Wear protective clothing. Avoid generating and inhaling dusts. If dust exists, wear approved dust mask and use with local exhaust. Wash thoroughly after handling. Clean/discard protection equipment after use. Do not get in eyes, on clothing. Avoid dust formation.

**STORAGE:** Store in a dry, cool, well-ventilated place away from incompatible or dangerous products. Avoid damaging the packing. For general planning purposes allow a maximum storage period of 5 years from date of delivery.

8. **EXPOSURE CONTROLS AND PERSONAL PROTECTION DATA**

**RESPIRATORY PROTECTION:** Appropriate NIOSH/MSHA (or similar standard) approved respirator

**EYES PROTECTION:** Safety glasses or face shield

**SKIN PROTECTION:** Coveralls and rubber boots. Chemical resistant or heavy rubber gloves

9. **STABILITY AND REACTIVITY**

**CONDITION TO AVOID:** Material is chemical stable and non-reactive

**INCOMPATIBILITIES:** Not applicable

**DANGEROUS DECOMPOSITION PRODUCTS:** Not known

10. **TOXICOLOGICAL INFORMATION**

**CHRONIC EFFECTS OF EXPOSURE:** Prolonged inhalation of iron oxide dust is known to produce condition known as siderosis. On X-RAYS it appears to be a benign pneumoconiosis and is not associated with pulmonary fibrosis or disability unless there is concurrent exposure to other fibrosis-producing materials such as Silica. The TLV is set to protect against siderosis

**ANIMAL TOXICITY DATA:** ORAL LD$_{50}$ (Rat) greater than 5000mg/kg

**DERMAL LD$_{50}$ (Rabbit) N/D**

**INHALATION LC$_{50}$ (Species) N/D**

**CARCINOGENCITY:** This product is not considered as carcinogen by IARC, NTP, ACGIH or OSHA.