



**UNIPROMA CHEMICAL CO., LIMITED**

2-1101, 259 Greenland Avenue, Huaqiao,  
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Tel: 86-21-3422 4291, 3422 8743 Fax: 86-21-5480 1476  
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**TECHNICAL DATA SHEET**



1. Trade name:	Sunsafe-TiO2M
2. Other name:	Microfine titanium dioxide
3. Molecular formula:	TiO <sub>2</sub>
4. Molecular weight:	79.88
5. CAS No. :	13463-67-7
6. Appearance:	White powder
7. Surface properties:	Hydrophobic
8. pH value:	6 – 8
9. Grain size nm:	25±5
10. Crystal form:	Rutile
11. SSA M <sup>2</sup> /g:	60 - 75
12. Purity %:	99.0 min
13. Loss on drying 105°C, 2h %:	0.5 max
14. Iron %:	0.003 max
15. As ppm:	1.0 max
16. Pb ppm:	10 max
17. Package:	15kgs net per cardboard drum.
<b>Application:</b>	
I Ultraviolet tanner.	



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**Sunsafe-TiO<sub>2</sub>M**

**Chemical name: Microfine titanium dioxide**

**CAS no.: 13463-67-7**

**Batch no.: U20090703-1**

**Manufacturing date: 3 Jul, 2009**

**Expiry date: 2 Jul, 2011**

**Quantity: 1000kgs**

Items	Specification	Results
1. Appearance:	White powder	Pass
2. Property of surface:	Hydrophobic	Pass
3. pH value:	6 – 8	7.0
4. Grain size nm:	25±5	Pass
5. Crystal form:	Rutile	Pass
6. SSA M <sup>2</sup> /g:	60 - 75	Pass
7. Purity %:	99 min	99.8
8. Loss on drying 105°C, 2h %:	0.5 max	0.18
9. Iron %:	0.003 max	Pass
10. As ppm:	1.0 max	Pass
11. Pb ppm:	10 max	Pass
<b>Conclusion:</b>	<b>Pass</b>	



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### MATERIAL SAFETY DATA SHEET

#### Section 1 - Chemical Product and Company Identification

**Trade name:** Sunsafe-TiO<sub>2</sub>M

**Product name:** Microfine titanium dioxide

**Company identification:**

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#### Section 2 - Composition, Information on Ingredients

**Composition:**

CAS No.	Product Name	%	EINECS No.
13463-67-7	Microfine titanium dioxide	99 min	236-675-5

**Hazard Symbols:** XN

**Risk Phrases:** 40

#### Section 3 - Hazards Identification

##### EMERGENCY OVERVIEW

Limited evidence of a carcinogenic effect.

##### Potential Health Effects

**Eye:** Causes mild eye irritation.

**Skin:** Causes mild skin irritation. May be harmful if absorbed through the skin.

##### Ingestion:

May cause irritation of the digestive tract. May be harmful if swallowed. Ingestion of large amounts may cause pain, constipation or diarrhea. May cause ataxia (failure of muscular coordination), increased blood pressure, hallucinations, hypermotility, muscle contraction/spasticity, fatigue, psychosis, and tremors.

##### Inhalation:

May be harmful if inhaled. May cause blood changes. May cause irritation of the upper respiratory tract and bronchi.

##### Chronic:

Prolonged or repeated exposure may cause lung irritation, chest pain, and pulmonary edema. Limited evidence of a carcinogenic effect.

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### Section 4 - First Aid Measure

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** Get medical aid. Wash mouth out with water.

**Inhalation:** Remove from exposure and move to fresh air immediately.

**Notes to Physician:**

### Section 5 - Fire Fighting Measure

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:** Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

### Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container.

### Section 7 - Handling and Storage

**Handling:** Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

**Storage:** Store in a cool, dry place. Keep container closed when not in use.

### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**

Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits**

**CAS No.: 13463-67-7:**

United Kingdom, WEL - TWA: 10 mg/m<sup>3</sup> TWA (total inhalable); 4 mg/m<sup>3</sup> TWA (respirable) United Kingdom, WEL - STEL: 30 mg/m<sup>3</sup> STEL (total inhalable); 12 mg/m<sup>3</sup> STEL (respirable)

**United States OSHA:** 15 mg/m<sup>3</sup> TWA (total dust)

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**Belgium - TWA:** 10 mg/m<sup>3</sup> VLE

**France - VME:** 10 mg/m<sup>3</sup> VME (as Ti)

**Malaysia:** 10 mg/m<sup>3</sup> TWA

**Netherlands:** 10 mg/m<sup>3</sup> MAC

**Russia:** 10 mg/m<sup>3</sup> TWA (aerosol)

**Spain:** 10 mg/m<sup>3</sup> VLA-ED

### **Personal Protective Equipment**

**Eyes:** Wear chemical splash goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## **Section 9: Physical and Chemical Properties**

**Physical State:** Powder

**Color:** white powder

**Odor:** odorless

**Vapor Pressure:** Not available

**Viscosity:** Not available

**Boiling Point:** 2900°C @760mmHg (5,252.00°F)

**Freezing/Melting Point:** 1855°C (3,371.00°F)

**Autoignition Temperature:** Not available

**Flash Point:** Not available

**Explosion Limits: Lower:** Not available

**Explosion Limits: Upper:** Not available

**Decomposition Temperature:** Not available

**Solubility in water:** Insoluble

**Specific Gravity/Density:** 4.230

**Molecular Formula:** TiO<sub>2</sub>

**Molecular Weight:** 79.88

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### Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials

**Incompatibilities with Other Materials:** Strong oxidizing agents, strong acids, alkali metals, alkaline earth metals, aluminum, zinc.

**Hazardous Decomposition Products:** Not available

**Hazardous Polymerization:** Will not occur.

### Section 11 - Toxicological Information

**RTECS No.:**

**CAS No.:**13463-67-7: XR2275000

**LD50/LC50:**

**RTECS:** Not available.

**Other:** oral rat LD50 > 10 g/kg

**Oral rat:** LD50 > 12 g/kg

**Oral rat:** LD50 > 20 g/kg

**Oral mouse:** LD50 > 10 g/kg

**Inh rat:** TCLo = 250 mg/m<sup>3</sup>/6H/2Y

**Inh rat:** LD > 2.29 mg/L/4H

**Inh rat:** LD > 3.56 mg/L/4H

**Inh rat:** LC > 6.82 mg/L

**Skin rabbit:** LD > 10g/kg

**Skin guinea pig:** LD50 >= 10 g/kg

**Skin rabbit:** not irritating

**Skin rabbit:** slightly irritating

**Skin human:** low irritancy

**Eye rabbit:** not irritating

**Eye rabbit:** slightly irritating

**Eye rabbit:** mild irritation

**Skin guinea pig:** not sensitizing

**skin human:** not sensitizing

**Carcinogenicity:**

Microfine titanium dioxide with trimethoxycaprylsilane- IARC: Group 3 (not classifiable)

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**Other:**

The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

Mutagenicity: Ames-test: negative. Possible carcinogen.

**Section 12 - Ecological Information**

**Ecotoxicity:**

**Fish:** Leuciscus idus: >=1000 mg/L; 48H; LC0 static

**Daphnia:** Daphnia: 3 mg/L; 30D; EC0

**Daphnia:** Daphnia: 1000 mg/L; 18D; EC100

**Daphnia:** Daphnia: 500 mg/L; 30D; EC100

**Section 13 - Disposal Considerations**

Dispose of in a manner consistent with federal, state, and local regulations.

**Section 14 - Transport Information**

	IATA	IMO	RID/ADR
<b>Shipping Name:</b>	Not available	Not available	Not available
<b>Hazard Class:</b>			
<b>UN Number:</b>			
<b>Packing Group:</b>			

**Section 15 - Regulatory Information**

**European/International Regulations:**

European Labeling in Accordance with EC Directives

**Hazard Symbols:** XN

**Risk Phrases:**

R 40 Limited evidence of a carcinogenic effect.

**Safety Phrases:**

S 36/37 Wear suitable protective clothing and gloves.

**WGK (Water Danger/Protection)**

**CAS No.:** 13463-67-7: 0

**Canada**

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**CAS No.:** 13463-67-7 is listed on Canada's DSL List

**US Federal**

**TSCA**

**CAS No.:** 13463-67-7 is listed on the TSCA Inventory.

**Section 16 - Other Information**

**Last Updated:** 7/20/2006

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.