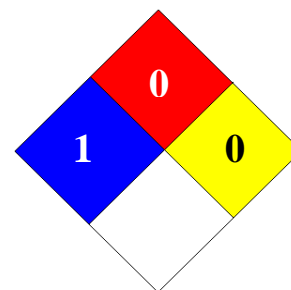




MATERIAL SAFETY DATA SHEET TITANIUM DIOXIDE FOR INKS

I. Product Identification.

Comercial Name: Titanium Dioxide for Inks
Chemical Family: Inorganic pigments
Supplier: Básicos y Colorantes, S.A. de C.V.
Emergency line: +52 55 5358-2011



Protective Equipment: F
Special Risk: --

II. Composition / Information about ingredients.

Titanium Dioxide (TiO ₂)	CAS No. 13463-67-7
Alumina (Al ₂ O ₃)	CAS No. 1344-28-1

III. Hazards Identification.

The product is not known to be hazardous if the usual precautions for prevention of exposure are followed.

IV. First Aid Measures.

Inhalation: Take the victim to fresh air; in case of breathing difficulties, supply oxygen and seek immediate medical attention.

Ingestion: Make to the victim drink plenty of water or milk. DO NOT induce the vomit, seek medical attention.

Eye contact: Immediately flush eyes with running water, keeping eyelids open, if irritation is developed seek ophtalmologic attention.

Skin Contact: After contact with skin, wash immediately with plenty of water, soap or chemical skin protectors. Wash contaminated clothing before reusing.

V. Fire and Explosion Data

Fire Extinguishing Media: Nebulized Water, foam, dry chemical powder or carbon dioxide.

Restriction: Not applicable

Explosion: Not applicable

Protective clothing: Fire protective gear

Básicos y Colorantes, S.A. de C.V.

San Francisco No 12, Col. San Francisco Cuautlalpan, Naucalpan Edo. de México
Tel. +52 55 5358-2011, Fax. +52 55 5358-2685, <http://www.byc.com.mx>

VI. Accidental release measures.

Use a shovel to put the material into a convenient waste disposal container, label and close it, and dispose of according to local and regional authority requirements.

VII. Handling and Storage

Special measures not available. Keep the container tightly closed. Take the usual care measures during the handling of chemical products.

VIII. Exposure controls / personal protection

Avoid eyes and skin contact. Prevent food and drink contact. Do not eat, drink or smoke in the work area or storage site. Change dirty or polluted clothes with this product. Use safety glasses for eyes and clothes for body.

Protective clothing: safety glasses, rubber gloves, synthetic apron and dust respirator. Adopt the usual care measures during the handling of chemical products.

IX. Physical and chemical properties.

<i>Physical State:</i>	Solid (Powder)
<i>Color:</i>	White
<i>Odor:</i>	---
<i>TiO₂:</i>	94.0 % min.
<i>Specific gravity:</i>	4.2 g/cm ³
<i>Bulk Density (tamped):</i>	910 kg/m ³
<i>Oil absorption:</i>	20 g/100 g
<i>Loss at 105 °C:</i>	0.6

X. Stability and Reactivity data.

Thermal decomposition: Stable until 800 °C

Hazardous reactions: Not available

Thermal decomposition does not occurs if storage and handling properly.

XI. Disposal, use and management data.

Accidental spill: Use a shovel to put the material into a convenient waste disposal container

Handling and Storage: Special measures not available.

Ecological information: Special measures not available.

XII. Toxicological Information

Severe Toxicity:

LD50 (orally, rat)	> 10,000 mg/Kg
LD50 (cutaneous, rabbits)	> 10,000 mg/Kg
LD50 (mucous, rabbits)	> 6.8 mg/L

Chronic effects: Not available

The product is not known to be hazardous if the usual precautions for prevention of exposure are followed.

Básicos y Colorantes, S.A. de C.V.

San Francisco No 12, Col. San Francisco Cuautlalpan, Naucalpan Edo. de México
Tel. +52 55 5358-2011, Fax. +52 55 5358-2685, <http://www.byc.com.mx>

XIII. Ecological information

This product is inert, there is not biological activity. Prevent pipes and drainage piping. The product dyes because of that seems a high contamination.

XIV. Regulatory information

No risk labeling is required, according to the directives of the European Economic Community(EEC).

No one components is listed in the T.S.C.A.

XV. Transport Information

This material is not labeled as hazardous or harmful. There are any specific requirements under national or international regulations to transport this product in roads, train, sea or air.

It is not a hazardous transport product.

XVI. Other Information.

Titanium Dioxide for Inks	
Health Hazard	1
Fire Hazard	0
Reactivity	0
Protective Equipment	F

HMIS Clasification

0 = minimal, 1 = slight, 2 = moderate, 3 = serious, 4 = extreme

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. Básicos y Colorantes S.A. de C.V. will not responsible for damages resulting from use of or reliance upon this information.

Básicos y Colorantes, S.A. de C.V.

San Francisco No 12, Col. San Francisco Cuautlalpan, Naucalpan Edo. de México
Tel. +52 55 5358-2011, Fax. +52 55 5358-2685, <http://www.byc.com.mx>