



SAFETY DATA SHEET

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Tito Titanium Dioxide

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifier

Product name: Tito Titanium Dioxide

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Identified uses:

White pigment for application in following industries: Coatings, plastics, printing inks, paper, man-made fibers, glass, vitreous enamels, ceramic products, textile, rubber, cement, chemical industry, food / feedstuff additives, drugs, cosmetics.

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet

Supplier : Smart Kimya Tic. Dan. Ltd. Sti.
Address : 10016 Sokak No:18 AOSB Cigli-Izmir / Turkey
Zip code : 35620
Telephone number : +90 850 441 00 22
Fax number : +90 232 329 35 07
e-mail address of person responsible for this SDS : sds@hammaddeler.com

1.4 Emergency telephone number: +90 850 441 00 22

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance/mixture:

2.1.1 Classification:

The substance is classified as following according to 67/548/EEC and REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008

Hazard classes/Hazard categories: N/A

Hazard codes: N/A

For full text of H- phrases: see section 2.2.

67/548/EEC

Hazards characteristics: N/A

R-Phrases: N/A

For full text of R- phrases: see section 16.

2.2 label elements:

Hazard Pictograms: No hazard pictogram is used.

Signal Word(s): No signal word is used.

Hazard Statement: Not applicable.

Precautionary statement: Not applicable.

2.3 Other hazards:

Not available.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Titanium Dioxide	01-2119489379-17-0063	13463-67-7	236-675-5	≥98%

3.2 Mixtures

N/A

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Move to a fresh air atmosphere. In case of persistent symptoms, consult a doctor.

4.1.2 In case of skin contact:

Wash with soap and water.

4.1.3 In case of eyes contact:

Rinse immediately with plenty of water. If irritation persists, seek medical attention.

4.1.4 In case of ingestion:

No adverse health effects anticipated by this route, however, in the event of ingestion, increase intake of liquid in order to flush from the body. In case of persistent symptoms, consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed:

The product is not classified as harmful to human health.

4.3 Indication of any immediate medical attention and special treatment needed:

If skin irritation or rash occurs, get medical advice/attention.

SECTION 5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Use any media appropriate for combustible material in the area.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

Product is inert, non flammable and non combustible.

5.3 Special fire fighting methods and special protective actions for fire-fighters:

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

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:

Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Use personal protective equipment. Information regarding personal protective measures see, Section 8.

6.1.2 For emergency responders:

Wear an appropriate NIOSH/MSHA approved respirator if mist, vapor or dust is generated.

6.2 Environmental Precautions:

Prevent run-off from entering ground, storm sewers and ditches which lead to natural waterways.

6.3 Methods for Containment and Cleaning up:

Use any feasible mechanical means (e.g. vacuum, sweeping) but avoid dusting during clean-up. The product can cause slippery conditions if wet. Even at low concentration, the product renders the discharge in liquid effluent highly visible.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

6.5 Additional information:

Wet clean or vacuum up solids.

Don't use a brush or compressed air for cleaning surfaces or clothing.

Clear spills immediately.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling:

7.1.1 Protective measures: Avoid raising dust. Handling systems and areas should be operated in such a way as to minimise exposure to dust.

7.1.2 Advice on general occupational hygiene: Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities: Stored in a cool, dry, ventilated area. Pigments should not be stored in outside areas exposed to the weather. Care should be taken to avoid exposure to moisture. Packing material: Paper, Plastic.

7.3 Specific end use(s): Not applicable.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

8.1.1 Occupational exposure limits: OEL respirable dust: 4 mg/m³ ; Total inhalable dust: 10 mg/m³

8.1.2 Additional exposure limits under the conditions of use: Not available.

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: Production facilities should be provided with running drinking water, local and general aspiration systems. In facilities, where titanium dioxide is handled, eating and food storage are not permitted.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection: The use of dust proof goggles or glasses with side protections is recommended if dust concentrations are likely to exceed the occupational exposure limit.

Hand protection: Glove material: Use protective gloves according to EN374 to prevent skin contact with dust., Break through time: > 60 min.

Body protection: Respect main rules concerning the protection clothes for chemicals handling.

Respiratory protection: Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards: Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls: Avoid discharge into the environment. According to local regulations, Federal and official regulations.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties:**

Appearance:	Solid
Colour:	White
Odour:	Odourless
Odour threshold:	Not available
pH:	7.9
Melting point/range (°C):	1560 °C
Boiling point/range (°C):	ca. 3000 °C
Flash point (°C):	Not available
Evaporation rate:	Not available
Flammability limit - lower (%):	Not available
Flammability (solid, gas):	Not available
Ignition temperature (°C):	Not available
Upper/lower flammability/explosive limits:	Not available
Vapour pressure (20°C):	Not available
Vapour density:	Not available
Relative Density:	4.17
Bulk density (kg/m³):	Not available
Water solubility (g/l):	Insoluble (< 0.1 mg/L)
n-Octanol/Water (log Po/w):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity, dynamic (mPa.s):	Not available
Explosive properties:	Not available
Oxidising properties:	Not available
Molecular Formula:	Not available
Molecular Weight:	Not available

9.2. Other information:

Fat solubility(solvent– oil to be specified) etc:	Insoluble
Surface tension:	Not available
Dissociation constant in water (pKa):	Not available
Oxidation-reduction Potential:	Not available
Specific gravity:	Not available

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity: The substance is stable under normal storage and handling conditions.

10.2 Chemical stability: Stable at room temperature in closed containers under normal storage and handling conditions.

10.3 Possibility of hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid: Incompatible materials.

10.5 Incompatible materials: Strong oxidizing agents.

10.6 Hazardous decomposition products: Titanium/titanium oxides.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

11.2 Information on toxicological effects:

Acute toxicity:

LD50(Oral, Rat): > 5000 mg/kg bw

LD50(Dermal, Rabbit): Not available

LC50(Inhalation, Rat): > 6.82 mg/L air/4 h (male)

Skin corrosion/Irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT- single exposure: Not classified

STOT-repeated exposure: Not classified

SECTION 12 ECOLOGICAL INFORMATION

Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96 h	Fish	OECD 203	N/A	N/A
EC50	N/A	48 h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72 h	Algae	OECD 201	N/A	N/A

Persistence and degradability:

Biodegradability [BD = (BOD5 : COD) • 100 %] : <10% (practically non biodegradable)

Chemical oxygen demand (COD): non oxidizable.

Biological oxygen demand (BOD): non oxidizable.

The substance half life: > 30 days.

Persistence and biodegradability is resistant to degradation and isn't subject to biodegradation.

Bioaccumulative potential: Cumulativeness: weak.

Mobility in soil: Toxic effect on soil invertebrates: bacterial toxicity: EC0> 5000 mg/l (Pseudomonas fluorescens, Escherichia coli; 24 hours).

Results of PBT & vPvB assessment: The substance is not persistent bioaccumulative one.

Other adverse effects: Do not empty into drains.

SECTION 13 DISPOSAL CONSIDERATION

13.1 Waste treatment methods: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult the state.

13.2 Product / Packaging disposal: If an empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.

SECTION 14 TRANSPORT INFORMATION

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	Not regulated	Not regulated	Not regulated
UN Proper shipping name	Not regulated	Not regulated	Not regulated
Transport hazard Class	Not regulated	Not regulated	Not regulated
Packaging group	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No
Special precautions for user	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated	Not regulated	Not regulated

SECTION 15 REGULATION INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young people must be observed. For use only by technically qualified individuals.

Other National regulations: Not applicable

Chemical Safety Assessment has been carried out?
NO

SECTION 16 OTHER INFORMATION

16.1 Indication of changes:
N/A

16.2 Relevant R- phrases (number and full text):
Not available.

16.3 Training instructions:
Not applicable.

16.4 Further information:
This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.



16.5 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.