

SAFETY DATA SHEET

TITANIUM DIOXIDE USP (OIL)

1. PRODUCT INFORMATION AND COMPANY IDENTIFICATION

Product Name: Titanium Dioxide USP (Oil)

Company: Natural Bulk Supplies, 318 Half Day Rd, # 348,
Buffalo Grove, IL 60089 Phone: 847-489-7180

Emergency Contact: Infotrac: 800-535-5053(North America) +1-352-323-3500 (International)

2. HAZARD IDENTIFICATION

The substances is classified as following according to 67/548/EEC and regulation (EC) No 1272/2008

Regulation (EC) No. 1272/2008	
Hazard Class/categories	N/A
Hazard Codes	N/A

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.

Other Hazards

Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture:

Substance

INCI NAME	CAS NO.	CONCENTRATION (%)
Titanium Dioxide	13463-67-7	≥ 98%

4. FIRST AID MEASURES

Description of first aid measures:

Inhalation:

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

Skin contact:

Wash with soap and water.

Eye contact:

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

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.

Most important symptoms and effects, both acute and delayed:

The product is not classified as harmful to human health effect.

Indication of any immediate medical attention and special treatment needed:

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

5. FIRE FIGHTING MEASURES

Extinguishing media:

Suitable Extinguishing Media:

Use any media appropriate for combustible material in the area.

Unsuitable Extinguishing Media:

Not available.

Special hazards arising from the substance or mixture

Product is inert, non-flammable and non-combustible.

Special firefighting 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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Non-emergency personnel:

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

Emergency Responders:

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

Environmental Precautions:

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

Containment and Clean 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.

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.

Additional information:

Wet clean or vacuum up solids.

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

7. HANDLING AND STORAGE

Precautions for safe handling:

Protective measures:

Avoid raising dust. Handling systems and areas should be operated in such a way as to minimize exposure to dust.

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.

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.

Specific end use(s):

Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Occupational exposure limits:

OEL respirable dust: 4 mg/m³ ; Total inhalable dust: 10 mg/m³

Additional exposure limits under the conditions of use:

Not available.

DNEL/DMEL and PNEC-

Values:

Not available.

Exposure controls:

Appropriate engineering controls:

Production facilities should be provided with running drinking water, local and general aspiration system. In facilities, where titanium dioxide is handled, eating and food storage are not permitted.

Individual protection measures, such as personal protective equipment:

Eye/face protection:

The use of dustproof 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.

Environmental Exposure Controls:

Avoid discharge into the environment.

According to local regulations, Federal and official regulations.

9. 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/m ³):	Not available
Water solubility (g/l):	Insoluble (< 0.1 mg/L)
n-Octanol/Water (log Po/w):	Not available
Auto-ignition temperature:	
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
Fat solubility(solvent– oil to be specified)	Insoluble
Surface tension:	Not available
Dissociation constant in water(pKa):	Not available
Oxidation-reduction Potential:	Not available
Specific gravity:	Not available

10. STABILITY AND REACTIVITY

Reactivity:

The substance is stable under normal storage and handling conditions.

Chemical stability:

Stable at room temperature in closed containers under normal storage and handling conditions.

Possibility of hazardous reactions:

No dangerous reactions known.

Conditions to avoid:

Incompatible materials:

Incompatible materials.

Strong oxidizing agents.

Hazardous decomposition products:

Titanium/titanium oxides.

11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution:

Non-human toxicological data:

Not available

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

12. ECOLOGICAL INFORMATION

Toxicity:

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

Persistence and degradability:

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

Chemical oxygen demand (COD): nonoxidizable. Biological oxygen demand (BOD):

nonoxidizable. 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.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state

Product / Packaging disposal:

If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.

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

15. REGULATORY INFORMATION

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 person must be observed. For use only by technically qualified individuals.

Other National regulations:

Not applicable.

Chemical Safety Assessment has been carried out?

No

16. OTHER INFORMATION

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