



# SAFETY DATA SHEET

**Issuing Date**  
07-01-2013

## **1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING**

**Product Code:** PURETi COAT™  
**Product Name:** Aqueous solution of anatase and amorphous titanium dioxide

**Company Name:**  
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## **2. HAZARDS IDENTIFICATION**

**Not a hazardous substance or preparation according to EU-directives 67/548/EEC or 1999/45/EC.**

### **Most Important Hazards**

<b>Inhalation</b>	Not specifically applicable (aqueous liquid).
<b>Eyes</b>	Inert foreign body hazard; may be slightly irritating.
<b>Skin</b>	Non-corrosive and non-sensitizing. Prolonged contact may result in rashes/irritations due to drying of the skin and/or mechanical abrasion related to skin-to-clothing contact or skin-to-skin contact.
<b>Ingestion</b>	No adverse health effects anticipated by this route during proper industrial handling.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical nature of the mixture:** Dispersion of anatase and amorphous titanium dioxide in water

<b>Chemical Name</b>	<b>CAS-No.</b>	<b>EC No.</b>	<b>REACH Reg. No.</b>	<b>Weight %</b>	<b>Classification</b>
Water	7732-18-5	231-791-2	Not Available	≥98.0	-
Titanium Dioxide	13463-67-7	236-675-5	01-2119489379-17-0001	<2.0	-

### **4. FIRST AID MEASURES**

**Eye contact** Immediately rinse with plenty of water for a prolonged period (at least 15 minutes) whilst keeping the eyes wide open. If eye irritation persists, consult a specialist.

**Skin Contact** Wash skin with soap and water.

**Ingestion** Rinse mouth out with water and spit out.

**Inhalation** Not application (liquid).

**Notes to Physician** Treat symptomatically

### **5. FIRE FIGHTING MEASURES**

**Suitable extinguishing media** All extinguishing agents can be used

**Extinguishing media which must not be used** None. If there is fire close by, use media suitable for safety reasons other burning materials

**Special Exposure Hazards Arising from the Substance/Preparation Including Combustion Products And Gases** None

**Special protective equipment for Firefighters** None required.

## **6. ACCIDENTAL RELEASE MEASURES**

**Environmental Precautions** For a large spillage, contain the spillage by bunding.

**Personal Precautions** Use personal protective equipment. Safety glasses.

**Methods for cleaning up** Pump up the product into a plastic container, suitably labelled. Prevent product from entering drains.

**Other information** Refer to Section 13 for disposal considerations.

## **7. HANDLING AND STORAGE**

**Handling** Use caution to prevent spillage. In event of a spill, clean up as soon as possible and provide warning of slippery condition until cleanup is complete.

**Storage** Do not freeze. Store at room temperature. Store in original packaging, plastic materials, stainless steel or glass. The recommended temperature range for transport and storage is between 0°C to 35°C. Away from these conditions, issues like an irreversible increase of viscosity, precipitation of solids, or a pressure increase in the containers may occur.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Exposure Limits**

<b>Chemical Name</b>	<b>EU</b>	<b>The United Kingdom</b>	<b>France</b>	<b>Spain</b>	<b>Germany</b>
Titanium Dioxide 13463-67-7		STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>	VME: 10 mg/m <sup>3</sup>	VLA-ED: 10 mg/m <sup>3</sup>	

<b>Chemical Name</b>	<b>Italy</b>	<b>Portugal</b>	<b>The Netherlands</b>	<b>Finland</b>	<b>Denmark</b>

Titanium Dioxide 13463-67-7		TWA: 10 mg/m <sup>3</sup>	MAC: 10 mg/m <sup>3</sup> MAC		TWA: 6 mg/m <sup>3</sup>
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Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Titanium Dioxide 13463-67-7	STEL 10 mg/m <sup>3</sup> MAK: 5 mg/m <sup>3</sup>	MAK: 3 mg/m <sup>3</sup>	NDS: 10.0 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> (respirable fraction)

Chemical Name	Belgium	Czech Republic	Greece	Sweden	United States
Titanium Dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup> (total dust)	TLV-TWA: 10 mg/m <sup>3</sup> TWA: 15 mg/m <sup>3</sup>

### **Occupational Exposure Controls**

**Engineering measures** Ensure adequate ventilation, especially in confined areas.

### **Personal Protective Equipment**

**Respiratory protection** No special protective equipment required.

**Eye protection** Safety glasses with side-shields or goggles.

**Skin and body protection** Long sleeved clothing.

**Hand protection** Neoprene gloves.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Do not allow material to contaminate ground water system.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **General Information**

**Physical State** Liquid, particles suspended in liquid

**Appearance** pale yellow, opaque solution

**Odor** none

**Important Health, Safety and Environmental Information**

<b>Flash Point</b>	None
<b>pH</b>	6.5-8.5
<b>VOC Content (%)</b>	No information available
<b>Water Solubility</b>	Miscible with water
<b>Evaporation Rate</b>	Not determined
<b>Flammability Limits in Air</b>	Not flammable
<b>Boiling Point</b>	Not available
<b>Autoignition Temperature</b>	None
<b>Viscosity</b>	Not determined
<b>Specific Gravity</b>	Not determined
<b>Vapor Density</b>	Not determined

**Other Information**

<b>Melting Point</b>	Not applicable
<b>Freezing Point</b>	Approximately 0 degree C

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable under normal conditions of use. Stable at ambient temperature.
<b>Conditions to avoid</b>	No dangerous reactions known under normal conditions of use.
<b>Materials to avoid</b>	Substances that react with water.
<b>Hazardous Decomposition Products</b>	None under normal use.

**11. TOXICOLOGICAL INFORMATION****Acute Toxicity**

<b>Product Information</b>	No particular risk when handled in accordance with good occupational hygiene practice.
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**12. ECOLOGICAL INFORMATION****Ecotoxicity**

<b>Ecotoxicity Effects</b>	None known
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<b>Persistence and degradability</b>	Titanium dioxide is persistent and inert mineral product. Not degradable
<b>Bioaccumulative potential</b>	Does not bioaccumulate
<b>Mobility</b>	Solids from slurry will settle

### **13. DISPOSAL CONSIDERATIONS**

<b>Waste from residues/ unused products</b>	Dispose of in accordance with local regulations. Discharging waste into rivers and drains is forbidden. Consult the manufacturer or supplier for information regarding recovery and recycling of the product.
<b>Contaminated packaging</b>	Contaminated packages are not considered hazardous for disposal into sanitary landfill or industrial waste disposal landfill. Please review appropriate national and local waste regulations.
<b>Other Information</b>	The user is advised that specific restrictions and local instructions concerning the elimination of this product may exist.

### **14. TRANSPORT INFORMATION**

<b>IMDG/IMO</b>	Not regulated
<b>RID</b>	Not regulated
<b>ADR</b>	Not regulated
<b>ICAO</b>	Not regulated
<b>IATA</b>	Not regulated
<b>Note</b>	Protect from frost and freezing conditions

### **15. REGULATORY INFORMATION**

**Not a hazardous substance or preparation according to EU-directives 67/548/EEC or 1999/45/EC.**

#### **Labeling**

None required

**International Inventories**

<b>USA (TSCA)</b>	Complies
<b>European Union (EINECS)</b>	Complies
<b>Canada (DSL/NDSL)</b>	Complies
<b>Philippines (PICCS)</b>	Complies
<b>Japan (ENCS)</b>	Complies
<b>China (IECSC)</b>	Complies
<b>Australia (AICS)</b>	Complies
<b>Korea (KECL)</b>	Complies
<b>New Zealand (NZIoC)</b>	Complies

**Legend**

**TSCA**- United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

**16. OTHER INFORMATION**

**This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 as amended by Regulation (EC) No 1272/2008 and Commission Regulation (EU) No 453/2010.**

**Disclaimer**

PURETi provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. A properly trained person using this product intends this document only as a guide to the appropriate precautionary handling of the material. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. PURETi makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly PURETi will not be responsible for damages resulting from use of or reliance upon this information.