



# SAFETY DATA SHEET

## Issuing Date

07-01-2013

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

**Product Code:** PURETi CLEAN™  
**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>

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
<b>Persistence and degradability</b>	Titanium dioxide is persistent and inert mineral product. Not degradable

**Bioaccumulative potential** Does not bioaccumulate

**Mobility** Solids from slurry will settle

### **13. DISPOSAL CONSIDERATIONS**

**Waste from residues/ unused products** 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.

**Contaminated packaging** Contaminated packages are not considered hazardous for disposal into sanitary landfill or industrial waste disposal landfill. Please review appropriate national and local waste regulations.

**Other Information** The user is advised that specific restrictions and local instructions concerning the elimination of this product may exist.

### **14. TRANSPORT INFORMATION**

**IMDG/IMO** Not regulated

**RID** Not regulated

**ADR** Not regulated

**ICAO** Not regulated

**IATA** Not regulated

**Note** 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**

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