



SAFETY DATA SHEET

Issuing Date

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

Product Code: PURETi FRESH™
Product Name: Aqueous solution of amorphous and anatase 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

Inhalation	Not specifically applicable (aqueous liquid).
Eyes	Inert foreign body hazard; may be slightly irritating.
Skin	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.
Ingestion	No adverse health effects anticipated by this route during proper industrial handling.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

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

Chemical Name	CAS-No.	EC No.	REACH Reg. No.	Weight %	Classification
Water	7732-18-5	231-791-2	Not Available	≥99.5	-
Titanium Dioxide	13463-67-7	236-675-5	01-2119489379-17-0001	<0.5	-

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

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

Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
Titanium Dioxide 13463-67-7		TWA: 10 mg/m ³	MAC: 10 mg/m ³ MAC		TWA: 6 mg/m ³

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

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

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 yellowish-green translucent solution

Odor none

Important Health, Safety and Environmental Information

Flash Point	None
pH	6.5-8.5
VOC Content (%)	No information available
Water Solubility	Miscible with water
Evaporation Rate	Not determined
Flammability Limits in Air	Not flammable
Boiling Point	Not available
Autoignition Temperature	None
Viscosity	Not determined
Specific Gravity	1.0
Vapor Density	Not determined

Other Information

Melting Point	Not applicable
Freezing Point	Approximately 0 degree C

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information	No particular risk when handled in accordance with good occupational hygiene practice.
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12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity Effects	None known
Persistence and degradability	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

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