

SAFETY DATA SHEET

SDS # PING010714

Preparation Date: January 7th, 2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Aqueous solution of amorphous titanium dioxide
Product Code:	PING™ (PURETi Inorganic Nano Glue)
Formula:	N/A – Mixture
Product Use:	Surface Coating

SUPPLIER INFORMATION:

Address: PURETi Group LLC
44 W. 28th Street
New York, NY 10001

Phone Number: 1-855-5PURETI
Email Address: info@pureti.com

2. HAZARDS IDENTIFICATION

CLP CLASSIFICATION AND LABELING FOR PRODUCT:

CLP Status	Classification	Signal Word and Hazard Statements
Pictogram None	Not classified	None

EU (per EEC Directive 1999/45/EEC):

Danger
Symbols: None
Phrases: None

OSHA REGULATORY STATUS: This material is exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200.b.6.ix)

HAZARD RATINGS: Degree of hazard (0 = low, 4 = extreme)

Hazardous Materials Identification System (HMIS):
Health: 0 Flammability: 0 Reactivity: 0 Personal Protection: C

POTENTIAL HEALTH EFFECTS

Eye: None known.
Skin: None known.
Inhalation: None known.
Ingestion: None known.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

POTENTIAL ENVIRONMENTAL EFFECTS: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	EINECS	Wt%
Water	7732-18-5	231-791-2	99 – 100
Titanium dioxide (nano)	13463-67-7	236-675-5	0.1 – 1

CLP Classification - Regulation (EC) No. 1272/2008:

Components	Classification(s)	Hazard Statement(s)
Water	None	None
Titanium dioxide (nano)	None	None

DSD Classification – Directive 67/548/EEC:

Components	Hazard Symbol(s)	R-Phrase(s)	S-Phrase(s)
Water	None	None	None
Titanium dioxide (nano)	None	None	None

4. FIRST AID MEASURES

- Eye Contact: In case of contact, flush eyes with plenty of water for at least 15 minutes. If irritation persists, get medical attention.
- Skin Contact: In case of contact, rinse skin with water. If skin irritation develops and persists or recurs, get medical attention.
- Inhalation: If symptoms of lung irritation occur (coughing, wheezing or breathing difficulty), remove from exposure area to fresh air immediately. Keep affected person warm and at rest. Get medical attention.
- Ingestion: If swallowed, immediately give person large amounts of water. Get medical attention. Induce vomiting only if instructed by a physician.
- Note to Physicians: None known. Use general supportive care.

5. FIRE FIGHTING MEASURES

- Unusual Fire and Explosion Hazards: None known.
- Extinguishing Media: Not applicable (not combustible)
- Special Firefighting Procedures: Cool closed containers exposed to fire with water spray.

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions: None known.
- Emergency Procedures: None known.
- Methods and

Materials for Containment: Pump spilled product into a plastic container, suitably labelled. Prevent product from entering drains.

Cleanup Procedures: Refer to Section 13 for disposal considerations.

7. HANDLING AND STORAGE

Handling: Transport in original container in accordance with good industrial hygiene and safety practice. No eating, drinking or smoking in areas where this product is handled, stored or processed. Workers must wash hands and face before eating, drinking and smoking.

Storage: DO NOT FREEZE. Store at room temperature, protected from direct sunlight in a dry area. Keep container tightly closed and sealed until ready for use. Store in original packaging, plastic materials, stainless steel or glass. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

Other Precautions: None known

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: General exhaust ventilation (GEV) sufficient to maintain air concentrations below occupational safety standards.

Eye/Face Protection: None required under normal use.

Skin Protection: None required under normal use.

Respiratory Protection: Respiratory protection must be worn when workers are exposed to concentrations of TiO₂ above applicable exposure limits.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	Property	Value
Appearance:	Light yellow translucent	Initial Boiling Point (°F):	No data
Odor:	No data	Boiling Range (°F):	No data
Odor Threshold:	No data	Melting/Freezing point (°F):	No data
Molecular Weight:	N/A – Mixture	Specific gravity (g/cc):	~1.0
Physical State:	Liquid	Viscosity (cps):	No data
pH:	6.5-8.5	Flash Point:	No data
Vapor Pressure (mm Hg):	No data	Decomposition Temperature:	No data
Solubility in Water (20 °C):	Miscible with water	Flammability:	Not flammable
Volatiles, Percent by volume:	No data	Upper/Lower Flammability Limits:	Not flammable
Vapor Density (air = 1):	No data	Auto-ignition Temperature:	Not flammable
Evaporation Rate:	No data	Octanol/water partition coefficient:	Not applicable

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use. Stable at ambient temperature.

Reactivity: None known.

Conditions to Avoid: None known.
 Materials to Avoid: Substances that react with water.
 Hazardous Decomposition Products: None known.
 Hazardous Polymerization: Will not occur.
 Hazardous Reaction Conditions: None known.

11. TOXICOLOGICAL INFORMATION

No particular risk when handled in accordance with good occupational hygiene practice.

12. ECOLOGICAL INFORMATION

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

Disposal Methods: 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.
 Physical/chemical Properties that May Affect Disposal Activities: None known
 Special Precautions for Landfills or Incineration Activities: Contaminated packages are not considered hazardous for disposal into sanitary landfill or industrial waste disposal landfill. Please review appropriate national and local waste regulations.

14. TRANSPORT INFORMATION

DOT:	Proper shipping name not regulated Class: None Packaging group: None
IMDG:	UN-Number: None Packaging group: None Proper shipping name not regulated Class: None
ICAO/IATA:	Class: None Packaging group: None Proper shipping name not regulated UN/ID No.: None

15. REGULATORY INFORMATION

Inventory Status: United States Toxic Substances Control Act Section 8(b) Inventory (TSCA)
European Inventory of Existing Commercial Chemical Substances (EINECS)

CERCLA: Not listed

CWA: Not listed

CAA: Not listed

RCRA: Not listed

SARA 313: Not listed

SARA 312 Hazard Class: Health: Acute – No
Chronic – No

Fire: No

Reactivity: No

Release of Pressure: No

SARA 302 EHS List: Not listed

Compliance with federal, provincial/state, and local environmental regulations is the responsibility of the user.

16. OTHER INFORMATION

PRECAUTIONARY STATEMENTS (GHS/CLP):

Prevention
None

Response
None

Storage
None

Disposal
None

PREPARED BY: PURETi Group

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