

Sicherheitsdatenblatt (Nano Silver TiO₂ Solution, CMT-NSTDS01)

1. Product and company identification

- Product Name: Nano Silver TiO₂ Solution (CMT-NSTDS01)
- Relevant identified uses of the substance or mixture: Not determined.
- Application of the substance: The preparation coating for antimicrobial and deodorizing agents
- Information on the supplier of the safety data
Hersteller: CMT Life Sciences Limited
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2. COMPOSITION/INFORMATION ON CONSTITUENTS

- Synonyms: Nano Silver Titanium Oxide (TiO₂) Water Dispersion
- Titanoxid (TiO₂) CAS#: 13463-67-7
- Silver (Ag) CAS#: 7440-22-4
- Water CAS#: 7732-18-5

3. Hazards Identification

- Classification of the substance or mixture.
- Classification according to Regulation (EC) No 1272/2008.
- Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.
- Special hazard statements for humans and the environment: The product is subject to labelling due to the calculation method of the "General Classification Directive for preparations of the EU" in the latest version.

- Classification system: The classification is based on the latest editions of the EU lists and is supplemented by company literature data.
- Labelling in accordance with Regulation (EC) No 1272/2008: not applicable
- Gefahrenpiktogramme: Read
- Main hazards: Harmless to humans under normal use
- Specific risks: None
- Marking: None

4. Composition / information on the ingredients

- Chemical characterization: mixtures
- Description: Preparation of modified hybrid materials in aqueous solution for antimicrobial and deodorizing coating.
- Dangerous components: Empty

- Additional information: The wording of the hazard statements given can be found in Section 16.

5. First aid measures

- General information: No special measures required.
- Emergency and first aid procedures:
 - o After skin contact: Rinse immediately with water.
 - o After eye contact: With the eye open, rinse under running water for several minutes. If symptoms persist, consult a doctor immediately.
 - o After inhalation: fresh air supply; in case of complaints, consult a doctor.
 - o After swallowing: rinse your mouth and drink plenty of water. Do not induce vomiting, immediately call for medical help.
 - o A person who vomits when lying on his back should be turned to his side. When vomiting, move the head to the low position (increased risk of aspiration).
- Information for the doctor:
 - o Main acute and delayed symptoms and effects: No further relevant information available.
 - o Indications of immediate medical assistance or special treatment: No further relevant information available.

6. Fire-fighting measures

- Suitable extinguishing agents: water
- Special exposure hazards: None
- Special deletion procedure: None
- Special protective equipment: No special measures required.

7. Measures in the event of accidental release

- Personal protection: Wear waterproof disposable gloves.
- Environmental protection: Do not allow the product to enter the sewerage system or groundwater.
- Do not allow to penetrate into soil and soil.
- Methods and material for retention and cleaning: Absorb with liquid-binding material (sand, diatomaceous earth, acid binder sawdust).

8. Handling and storage

- Precautions during handling: No special measures required.
- Notes on fire and explosion protection: The product is non-flammable.
- Storage precautions/conditions: Store in a cool place. The suitable storage temperature is 15~25 C.
- Information on storage in a common warehouse. Only the same material class should be stored together. Joint storage with the following materials is prohibited:
 - o Medicinal products, food and feed, including additives. Infectious, radioactive and explosive substances.

9. Exposure limitation and personal protection

- Arrangement of the workplace: Condition ventilate to control the steam concentration.

- Personal protective equipment: Wear waterproof gloves and goggles to protect your eyes.

10. Physical and chemical properties

- Appearance Transparent with slightly milky liquid solution
- Color light milky
- Odour Without or solvent-based
- PH value 5.5 – 6.5
- Change of state

Melting point Undetermined

Boiling point > 100 C

- Ignition temperature Not determined
- Flash point Not applicable
- Flammability (solid, gaseous) Not applicable
- Decomposition temperature Not determined
- Spontaneous combustion product is not self-igniting
- Explosion hazard Product does not pose an explosion hazard
- Explosionsgrenzen

Low Not Determined

Upper Not determined

- Vapour pressure Not determined
- Density at 200 °C 1.01 g/cm³
- Relative density Not determined
- Vapour density Not determined
- Evaporation rate Not determined
- Solubility in water Soluble
- Segregation coefficient Not determined
- Viscosity dynamic at 200 C 1,005 mPas

11. Stability and reactivity

- Thermal decomposition: No decomposition when used as intended.
- Possibility of dangerous reactions: No dangerous reactions known.
- Conditions to avoid: No other relevant information available.
- Incompatible materials: No other relevant information available.
- Dangerous decomposition products:

Could be released in case of fire

Carbon monoxide and carbon dioxide

12. Toxicological information

- Acute toxicity: Basic all ingredients are safe.
- Main hazards: Harmless to humans under normal use.
- Skin irritation: No irritant effect.
- Specific risks: None.

13. Ecological information

- Aquatic toxicity: No other relevant information available.
- Persistence and degradability: No other relevant information available.
- Bioaccumulation potential: No other relevant information available.

- Mobility in the ground: No other relevant information available.

14. Instructions for disposal

- Product: Recyclable
- Uncleaned packaging: disposal in accordance with official regulations.
- Cleaned packaging: Empty packaging can be recycled.

15. Transport

- Transport hazard class: Not restricted
- Environmental hazards: No
- Marine pollutant: None
- Bulk transport according to IBC code: Not applicable
- IATA: No dangerous goods

16. Legal Notices

- Labelling in accordance with Regulation (EC) No 1272/2008: not applicable
- Gefahrenpiktogramme: Read
- Hazard statements: not applicable
- Other regulations, restrictions and prohibition regulations: National and local regulations on chemicals must be observed.

17. Other information

This information is based on the current state of knowledge. However, this does not constitute a guarantee for certain product properties and does not constitute a legally valid contractual relationship.