Date of issue: 27/08/21

Date of revision: 03/12/21

# SAFETY DATA SHEET

## 1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Product name: Nanoshield™ Antiviral Liquid Spray - TH321 Series

SDS No.: SDS-T321 D

Relevant identified uses of the product

Deodorization, Disinfection, Virus countermeasures

Details of the supplier of the safety data sheet

Company name: Nanoveu Pte Ltd

Address: 20 Ayer Rajah Crescent, #08-09, Singapore 139964

Telephone: +65 6557 0155

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#### 2. Hazard Identification

GHS classification and label elements of the product

PHYSICAL AND CHEMICAL HAZARDS

Not applicable to classification

**HEALTH HAZARDS** 

Acute toxicity (oral): Category 5

Acute toxicity (dermal): Category 5

Acute toxicity (inhalation vapours): Not applicable to classification

Skin corrosion / irritation: Category 1

Serious eye damage / eye irritation: Category 2B

Skin sensitization: Not applicable to classification

Carcinogenicity: Category A4

Reproductive toxicity: Not applicable to classification

Specific target organ toxicity (single exposure): Category 3 (Respiratory tract)

Specific target organ toxicity (repeated exposure): Not applicable to classification

Aquatic environmental toxicity (acute): Not applicable to classification

Aquatic environmental toxicity (chronic): Not applicable to classification

Label elements



Signal word: Warning

PRECAUTIONARY STATEMENT

Prevention

P201: Obtain special instructions before use.

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P202: Do not handle until all safety precautions have been read and understood.

P233: Keep container tightly closed.

P260: Do not breathe dust.

P264: Wash face and hands thoroughly after handling

P270: Do not eat, drink or smoke when using this product.

P280: Use personal protective equipment as required.

#### Response

P303 + P361 + P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/

P304 + P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338: IF INEYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P307 + P313: IF exposed: Get medical advice/ attention.

P312: Call a POISON CENTER or doctor/ physician if you feel unwell.

P337+P313: If eye irritation persists: Get medical advice/ attention.

#### Storage

P235: Keep cool.

P403: Store in a dry place.

P405: Store locked up.

Disposal

P501: Dispose of contents/container in accordance with local/national regulation.

# 3. Composition/Information on Ingredients

Ingredient name	CAS No.	Content (%)
Copper iodide	7681-65-4	< 0.01
Stabilizing agent	Confidential	< 0.01
Zirconium compounds	Confidential	< 0.01
Polymer dispersant	Confidential	< 0.01
<organic additive=""></organic>		
Citric acid Na	77-92-9	< 0.1
Plant extract	Confidential	
Fatty acids	Confidential	
Vegetable-oil	Confidential	
Polyphenols	Confidential	
Water	7732-18-5	> 99
DPG	25265-71-8	0.5

Note: The figures shown above are not the specifications of the product.

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#### 4. First Aid Measures

Descriptions of first-aid measures

IF INHALED

Remove person to fresh air and keep comfortable for breathing. If symptoms persist, seek medical attention.

IF ON SKIN

Immediately wash with soap and plenty of water. If symptoms persist, seek medical attention.

IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Gargle with water and seek medical attention if you feel unusual.

### 5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing media

In case of fire, use ABC powder fire extinguishing agent, firefighting foam, water spray, carbon dioxide.

Advice for firefighters

Specific fire-fighting measures

Not flammable

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#### 6. Accidental release measures

When working, wear the protective equipment described in [Exposure controls/ personal protection], sweep up spilled material as much as possible, and collect it in a container. Afterwards Flush with large amounts of water.

### 7. Handling and Storage

Precautions for safe handling

Preventive measures

(Technical measures)

Take equipment measures as described in the next section [Exposure controls/ personal protection] and wear protective equipment.

Avoid contact with strong oxidizing agents.

(Precautions for safe handling)

Take equipment measures as described in the next section [Exposure controls/ personal protection] and wear protective equipment.

Avoid contact with strong oxidizing agents.

Storage

Conditions for safe storage

Store indoors away from direct sunlight, high temperature, high humidity, water, fire, and heat sources.

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Do not mix and store with Class 1 and Class 6 hazardous materials under the Fire Service Law.

### 8. Exposure controls/ personal protection

Control parameters

Permissible concentration

(Copper iodide) ACGIH (2008) TWA: 1mg/m3 (as Cu)

(Zirconium compounds) ACGIH (2008) TWA: 5mg/m3 (as Zr)

(Zirconium compounds) ACGIH (2008) STEL: 10mg/m3 (as Zr)

(Stabilizing agent) Japan Society for Occupational Health: 2mg/m<sup>3</sup> (Inhalable dust)

Exposure controls

Equipment measures

No special requirements

Protective equipment

Respiratory protection: Wear dust masks.

Hand protection: Wear impervious protective gloves.

Eye protection: Wear safety glasses.

Skin and body protection: It is desirable to wear long-sleeved work clothes and antistatic clothing.

## 9. Physical and Chemical Properties

Physical and Chemical Properties

Physical state: White liquid

Odor: No data

Density: No data

pH: 5.3

Melting point/ Freezing point: No data

Boiling point: 100°C

Flash point: None

Flammability (solid, gas): None
Auto-ignition temperature: No data
Decomposition temperature: No data

Viscosity: No data

### 10. Stability and Reactivity

Chemical stability

Stable under normal storage/ handling conditions.

Incompatible materials

Strong oxidizing agent, Calcium hypochlorite, Ammonia

Hazardous decomposition products

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No data

Decomposition products

Iodine

# 11. Toxicological Information

Acute toxicity (oral)

(Stabilizing agent) LD50 (rat) 10200 mg/kg

(Polymer dispersant) LD50 7500 mg/kg (calculated value)

Acute toxicity (dermal)

(Polymer dispersant) LD50 >2000 mg/kg (calculated value)

Acute toxicity (inhalation vapor)

(Polymer dispersant) LD50 >20mg/kg (calculated value)

Acute toxicity (dust and mist)

(Polymer dispersant) LD50 >5mg/kg (calculated value)

Skin corrosion/Irritation

(Copper iodide) irritating to human skin (HSDB, 2003)

Eye damage/irritation

(Copper iodide) irritating to the human eye (HSDB, 2003)

Carcinogenicity

(Zirconium compounds) Category A4 (ACGIH, 7th 2001)

Specific target organ toxicity (repeated exposure)

Category 3

(Copper iodide) irritating to the human respiratory tract (HSDB, 2003)

#### 12. Ecological Information

No data available

#### 13. Disposal Consideration

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

## 14. Transport Information

UN number, UN classification

UN Number: Not applicable

Classification or category: Not applicable

### 15. Regulatory Information

Chemical Evaluation Law:

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Specified chemical substances: Not applicable

Monitoring chemical substances: Not applicable

Priority assessment chemical substances: dipropylene glycol (50%)

Fire Defence Law: Not applicable

Industrial Safety and Health Law (Act No.57 of 1972): Not applicable

Poisonous and Deleterious Substances Control Law: Not applicable

PRTR Act: Not applicable

Others: No knowledge

#### 16. Other Information

General Disclaimer

The GHS classification data given here is based on current EU official data (Consolidated version of the CLP Regulation published in 14.11.2020) & US Hazard Communication Standard - 2012.

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

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