

SAFETY DATA SHEET

Premium Disinfectant with D2U NanoSilver+ Technology

Material no.

Specification

154329

Revision date

21.04.2020

Version

1.0

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

PRODUCT NAME : Premium Disinfectant with D2U NanoSilver+ Technology
FUNCTION : Surface disinfectant
SUPPLIER : Business Pixel Sdn Bhd
ADDRESS : B-11-10, Block B, Megan Avenue 2, Jalan Yap Kwan Seng, Kuala Lumpur 50480, Malaysia
PHONE : +6038815 3055
EMAIL ADDRESS : info@disinfection2u.com
MANUFACTURER : Ominent Sdn Bhd
ADDRESS : 6 Jalan Para U8/103 Bukit Jelutong 40150 Shah Alam, Selangor Darul Ehsan, Malaysia
PHONE : +60378310980
EMAIL ADDRESS : hello@iglcoatings.com

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Health hazards

Eye Irritation : Category 2
Skin Irritation : Category 2
Chronic Aquatic Hazard : Category 3

2.2 Label Elements

Regulation (EC) No. 1272/2008



GHS07

Signal word

Warning

Hazard statements

H315 Causes skin irritation
H319 Causes serious eye irritation
H412 Harmful to aquatic life with long lasting effect

Precautionary statements

P264 Wash exposed skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing, eye protection and face mask.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P501 Dispose of contents/container to comply with local, state and federal regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No.	Chemical Name	Quantity
	EC No. Index No. REACH No.	
	Classification according to Regulation (EC) No. 1272/2008 (CLP)	
7722-84-1	Hydrogen peroxide	5-7%
	231-765-0 Not applicable 01-2119485845-22-0000	
	Oxid. Liq. 1: H271; Acute Tox. 4: H302+H332; Skin Corr. 1A: H314; Eye Dam. 1: H318; STOT SE 3: H335; Aquatic Chronic 3: H412	
7664-38-2	Phosphoric acid	0.5%
	231-633-2 Not applicable 01-2119485924-24-0001	
	Met. Corr. 1: H290; Acute Tox. 4: H302; Skin Corr. 1B: H314; Eye Dam. 1: H318	
7440-22-4	Silver	0.05%
	231-131-3 Not applicable 01-2119555669-21-0000	
	Aquatic acute 1: H400; Aquatic Chronic 1: H410	

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4. FIRST AID MEASURES

4.1 Description of first aid measures

General Information

Take off contaminated clothing immediately.

After Inhalation

If fumes or combustion products are inhaled, remove victim from contaminated area. Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

After skin contact

Wash off affected area immediately with plenty of water for at least 15 minutes. In case of skin irritation, seek medical treatment.

After contact with eyes

With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes. Remove contact lenses, if presence and easy to do. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Wash out mouth with water provided the person is conscious. If swallowed, do not induce vomit.

In all cases of doubt, or when symptoms persist, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water, Dry extinguishing powder, Carbon dioxide (CO₂), alcohol resistant foam.

5.2 Unsuitable extinguishing media

Full water jet.

5.3 Special hazards arising from the substance or mixture

Not flammable.

5.4 Advise for firefighters

Wear full body protective clothing with breathing apparatus.

Prevent, by any means available, spillage from entering drains or water course.

Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools.

5.5 Unusual Fire Hazards:

Heating may cause expansion or decomposition leading to violent rupture of containers.

Heat affected containers remain hazardous.

Contact with combustibles such as wood, paper, oil or finely divided metal may produce spontaneous combustion or decomposition.

May emit irritating, poisonous or corrosive fumes.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment (Refer to section 8).

6.2 Environmental precautions

Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Discharge In case of larger quantities:

Collect product in suitable containers (e. g. made of plastic) using appropriate equipment (e. g. liquid pump).

Keep away from flammable substances and incompatible substances.

Rinse away any residue with plenty of water

With small amounts:

Dilute product with lots of water and rinse away or absorb with liquid-binding material, e. g.: diatomaceous earth or universal binder.

Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

Safe handling: Refer to section 7

Personal protection equipment: Refer to section 8

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Disposal: Refer to section 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

Do not inhale vapours

Avoid contact with eyes and skin.

Use with adequate ventilation.

Advice on protection against fire and explosion

Keep container tightly closed and in a well-ventilated place.

Further information on handling

General protection and hygiene measures: Refer to section 8.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Advice on storage compatibility

Do not store together with food and feeding stuffs.

Further information on storage conditions

Keep the packing dry and well-sealed to prevent contamination.

Recommended storage temperature: 20-25°C.

7.3 Specific end use(s): Refer to section 1.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

Component	Type	Control parameter	Source
Hydrogen peroxide	TWA	1ppm	US.ACCIH Threshold Limit Values (2011)
	REL	1ppm 1.4mg/m ³	US.NIOSH:Pocket Guide to chemical hazard(2010)
	PEL	1ppm 1.4mg/m ³	US.OSHA Table Z-1 Limits for air Contaminants (29 CFR 1910.1000)(02 2006)
	TWA	1ppm 1.4mg/m ³	S.OSHA Table Z-1-A(29 CFR 1910.1000)(1989)
Phosphoric acid	TWA	1mg/m ³	ACGIH -US / EU
	STEL	2mg/m ³	EU ELV

Additional Information: The lists valid during the making were used as basis.

8.2 Exposure Control

8.2.1 General protective and hygienic measures:

Wash hands before breaks and at the end of work. Ensure adequate ventilation.

8.2.2 Personal protective equipment:

Respiratory protection:

In case of inadequate ventilation, use suitable respirator.

Chemical respirator with aids gas cartridge.

Protection of hands:

Wear chemical protective gloves, e.g. PVC

Wear safety footwear or safety gumboot, e.g. Rubber.

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly.

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Eye protection: Wear safety glasses with side shield and a face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (colour) : Clear whitish solution

Appearance (form) : Liquid

Odour : Odourless

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Boiling Point	: 100 °C
Vapour Pressure	: Data not available.
Vapor Density	: Data not available
Density	: 0.998 kg/L
Melting Point	: Not applicable
Flash Point	: >60 °C
pH	: 5
Evaporation Rate	: No data available.
Solubility in Water	: Soluble

10. STABILITY AND REACTIVITY

10.1 Reactivity: Product is stable under normal condition.

10.2 Chemical stability: Product is stable under normal condition.

10.3 Possibility of hazardous reactions: Hazardous polymerisation does not occur.

10.4 Conditions to avoid: Strong acid, strong alkali, oxidizing agent.

10.5 Incompatible materials: No data available.

10.6 Hazardous decomposition products: May decompose upon heating to produce corrosive and toxic fumes.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Exposure route	Endpoint	Value	Species
Oral	LD50	41965 mg/kg	Rat
Dermal	LD50	28571 mg/kg	Rat

Chronic toxicity: No information available.

Skin corrosion/irritation: Severe irritant/corrosive to skin.

Eye irritation: Severe irritation/corrosive to eyes.

Respiratory or skin sensitization: No information available.

Summary of evaluation of the CMR properties: Shall not be classified as a germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity – single exposure: No information available.

Specific target organ toxicity – repeated exposure: No information available.

Aspiration hazard: No information available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Specified substance: Hydrogen peroxide

Endpoint	Value	Species	Exposure time
LC50	16.4 mg/L	Fish Pimephales promelas	96 hours
LC50	2.4 mg/L	Aquatic invertebrates	48 hours
NOEC	630 µg/L	Aquatic invertebrates	21 days
EC50	1.38 mg/L	Algae Skeletonema costatum	72 hours

Specified substance: Phosphoric acid

Endpoint	Value	Species	Exposure time
LC50	100 mg/L	Freshwater invertebrate	48 hours
EC50	100 mg/L	Freshwater algae	72 hours

Specified substance: Silver

Endpoint	Value	Species	Exposure time
LC50	1.2 µg/L	Fish	4 days
EC10	440 ng/L	Fish	32 days
LC50	220 ng/L	Aquatic invertebrates	48 hours
NOEC	57 - 23 000 ng/L	Aquatic invertebrates	21 days

12.2 Process of degradability

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No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB Assessment

No data available.

12.6 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATION

13.1 Waste treatment methods

Disposed according to local authority regulation.

Sewage disposal-related information

Do not empty into drains.

Do not dispose of the emptied container unless the contents have been completely removed and the container has been flushed with a clean neutral solvent and then dried up. Do not dispose the emptied container unlawfully.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

14. TRANSPORT INFORMATION

14.1 IATA-DGR

UN number : -
UN proper shipping name : Non dangerous goods
Transport hazard class(es) : -
Packing group : -
Environmental hazards : No
Special precautions for user : No data available.
Remarks : -

14.2 IMDG-Code

UN number : -
UN proper shipping name : Non dangerous goods
Transport hazard class(es) : -
Packing group : -
Environmental hazards : No
Marine pollutant : No
EmS Code : -

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

US Federal Regulations

US. Toxic Substances Control Act (TSCA)

All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Hazardous Substance List

This product contains the following substance subject to the reporting requirements of CERCLA Hazardous Substance List

Component(s)	CAS No.
Phosphoric acid	7664-38-2
Silver	7440-22-4

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Emergency Planning and Community Right-To-Know Act (EPCRA) Section 302 Extremely Hazardous Substance

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None present or none present in regulated quantities.

Emergency Planning and Community Right-To-Know Act (EPCRA) Section 313 Toxics Release Inventory (TRI) Reporting

This product contains the following substance subject to the reporting requirements of EPCRA Section 313

Component(s)	CAS No.
Silver	7440-22-4

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

None present or none present in regulated quantities.

US. State Regulation

US. California Proposition 65

None present or none present in regulated quantities.

EU Regulation

EU. Directive 2012/18/EU (SEVESO III) on Major Accident Hazards Involving Dangerous Substances, Annex I:

Not applicable.

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

16. OTHER INFORMATION

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material use in combination with any other materials or any process, unless specified in the test.