

Reference: Regulation (EC) 1907/2006 878/2020	<b>MATERIAL SAFETY DATA SHEET</b> (MSDS) Product: <b>NDP Air &amp; Surfaces +</b>	Version 11 Date last revision: 25.11.22 SHEET 1 of 10
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## 1. SECTION 1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF THE COMPANY:

**1.1. Product identifier:** NDP Air & Surfaces +

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Use of the substance/preparation:** Bactericidal, fungicidal and virucidal disinfectant for Air Conditioning Systems disinfection.

**Spanish Ministry of Health register:**

**Num. Register:** 17-20/04-5660

**1.3. Details of the supplier of the safety data sheet**

**Manufacturer:** Vesismín, S.L.U. C/Aribau 230-240, 6<sup>th</sup> floor, L-O - 08006 Barcelona (Spain) - vesismín@vesismín.com

**Telephone number:** +34 934 095 301

**Fax:** +34 933.396.628

**e-mail:** [vesismín@vesismín.com](mailto:vesismín@vesismín.com)

**1.4. Emergency number:** +34 934 095 301 (working hours)

## 2. SECTION 2. HAZARD IDENTIFICATION:

**2.1. Classification of the substance or mixture**

**Classification according to EC Regulation num. 1272/2008 [CLP]**

HAZARDOUS TO THE AQUATIC ENVIRONMENT – CHRONIC HAZARD. Category 3 (H412)

**2.2. Label elements: according to EC Regulation num. 1272/2008 [CLP]**

Hazard pictograms: Non applicable

Signal word: Non applicable

Hazard statements:

- Harmful to aquatic life with long lasting effects (H412)

Precautionary Statements

- Avoid release to the environment (P273)
- Dispose of contents and/or container in accordance with dangerous residues regulations (P501)
- Keep out of reach of children (P102)
- IF ON SKIN: Wash with plenty of soap and water. (P302 + P352)
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305 + P351 + P338)

**2.3. Other hazards**

No significant environmental and health risks if used under standard conditions of commercial and industrial use.

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**PBT:** This product is not identified as PBT/vPvB

This mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal or greater than 0,1%.

### 3. SECTION 3. COMPONENT COMPOSITION / INFORMATION

#### 3.2. Substance/Mixture: Mixture

##### Dangerous components:

Ingredient	Nº CAS / Nº Reg REACH	Classification* 1272/2008	Concentration
Didecyl dimethyl ammonium chloride 70%	7173-51-5	Flam. liq. 3: H226 Acute tox. 4: H302; Skin corr. 1B: H314; Chronic aquatic 1: H410	0.46%
2-Phenoxyethanol	122-99-6 / 01-2119488943-21-0000, 01-2119488943-21-0006	Acute tox. 4: H302; Eye irrit. 2: H319	0.10%
Cinnamaldehyde	104-55-2 / 01-2119935242-45-0001	Skin corr 2: H315; Skin Sens. 1: H317; Acuatic tox 4: H312	0.02%
Excipients and water	-	-	csp 100 %

\* Complete text of Hazard statements indicated in this Section are explained in Section 16.

### 4. SECTION 4. FIRST AID MEASURES:

#### 4.1. Description of first aid measures

**First aid measures:** Transfer the patient to a non-contaminated atmosphere. Remove stained or splashed clothes. Rinse the eyes with abundant water and soap, do not rub. Do not give anything by oral way. In case of ingestion, do not induce vomiting. Leave the patient resting. Conserve the body temperature. Control the breathing, artificial breathing if necessary. If the person is unconscious, lie it down with the head lower than the rest of the body, and the knees bended. Transfer the patient to a hospital, and bring the label or container if possible.

**Do not let alone the patient in any case.**

#### 4.2. Most important symptoms and effects, both acute and delayed

**Effects and symptoms:** Non specific effects and/or symptoms are known

The intoxication can produce: eye, skin, mucus, respiratory tract and gastrointestinal irritation.

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#### **4.3. Indication of any immediate medical attention and special treatment needed**

**Therapeutic advice:** In case of ingestion, consider making an endoscopy. Symptomatic treatment. See section 4.1.

## **5. SECTION 5. FIRE-FIGHTING MEASURES**

### **5.1. Extinguishing media**

**Suitable extinguishing media:** Foam, dry chemical powder, CO<sub>2</sub>, sand and water spray fog.

**Extinguishing media that do not have to be used for safety reasons:** Not applicable.

### **5.2. Special hazards arising from the substance or mixture**

**Special exposure hazards arising from the substance or preparation itself, combustion products, or produced gases:** Non flammable product. In case of great magnitude fire, amine vapours could be generated.

### **5.3. Advice for firefighters**

**Special protective equipment for fire-fighters:** Fire-fighters must be provided with adequate protective equipment.

## **6. SECTION 6. ACCIDENTAL RELEASE MEASURES:**

### **6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions:** Take common precautions

### **6.2. Environmental precautions**

Avoid pouring the product into the public drainage. If the product reaches a river course or a sewer, or it has contaminated the soil or vegetation, warn the Authorities. Collect it in plastic containers and eliminate it in appropriate places.

### **6.3. Methods and material for containment and cleaning up**

**Cleaning measures:** Do not release product into drainpipes or in the environment. Eliminate the spilled product with materials that act as absorbents (sawdust, peat, or chemical chelating agents). Place the collected product in containers that can be closed. Clean the floor and all objects with this material using a damp cloth. Collect the cleaning materials and deposit them in recipients that can be closed.

### **6.4. Reference to other sections**

Refer to sections 8, 12 and 13 of SDS.

## **7. SECTION 7. HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

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**Handling:** Take measures to avoid splashing in the eyes and on skin.

## 7.2. Conditions for safe storage, including any incompatibilities

**Storage:** Store in high density polypropylene containers. Store at room temperature and avoid extreme temperatures and direct contact with sunlight. Store only in the original containers.

## 7.3. Specific end use(s)

Air conditioning disinfectant. For professional use only.

## 8. SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Non applicable. The mixture does not contain limit values for professional exposure.

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Name of the substance	Final use	Route of exposure	Potential Health Effects	Value
2-phenoxyethanol	workers	Cutaneous	Long term – systemic effects	34.72mg/kg
	workers	Inhalation	Long term – local systemic effects	8.07mg/m <sup>3</sup>
	Consumers	Cutaneous	Long term – systemic effects	20.83mg/kg
	Consumers	Inhalation	Long and short term – local effects	2.5mg/m <sup>3</sup>
	Consumers	Oral	Long and short term – systemic effects	17.43mg/kg

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Name of the substance	Environmental compartment	Worth
2-phenoxyethanol	Sweet water	0.943mg/l
	Seawater	0.0943mg/l
	Sporadic release	3.44mg/l
	Sediment (fresh water)	7.2366mg/kg
	Sediment (sea water)	0.7237mg/kg
	Soil	1.26mg/kg
	Treatment plant	24.8mg/l

### 8.2. Exposure controls

**Hygienic measures:** Do not eat, drink or smoke during use.

**Exposure control:** Avoid spilling, contact with eyes and ingestion.

**Equipment to provide adequate personal protection:** Hands protection (safety gloves) and eye protection (safety goggles).

## 9. SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1. Information on basic physical and chemical properties

**Aspect (physical state, color):** Liquid, transparent without colour

**Odour:** without odour

**Melting point / freezing point:** Not available

**Boiling point :** 97 – 102°C

**Flammability:** Non-flammable

**Upper and lower explosive limit:** Not available

**Auto-ignition temperature:** Not available

**Decomposition temperature:** Not available

**pH (100% in water):** 4 – 6 (20 °C)

**Viscosity:** Not available

**Water solubility:** 100% soluble

**Partition coefficient n-octanol/water (Log K<sub>ow</sub>):** Not available

**Vapour pressure:** Not available

**Density:** 0,990 – 1,015 g/cc (20°C)

**Relative density:** Not available

**Relative vapour density at 20°C:** Not available

**Particle characteristics:** Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

Not applicable

## 10. SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

It does not present dangerous reactions. It does not react with acids, bases, organic peroxides, molecules with sulfhydryl groups, or heavy metals. Unstable in presence of strong oxidizers and strong alkalins.

### 10.2. Chemical stability

The product is stable at recommended conditions of handling and storage.

### 10.3 Possibility of hazardous reactions

It does not present.

### 10.4. Conditions to avoid

Non applicable

### 10.5. Incompatible materials

Non applicable

### 10.6. Hazardous decomposition products

Non applicable.

## 11. SECTION 11. TOXICOLOGICAL INFORMATION

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### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity:

Oral route: Not harmful by oral ingestion. DL<sub>50</sub> (oral route) > 2000 mg/kg

Inhalation route: Not applicable.

Through skin and/or eyes:

\*Skin irritation: It is not irritating.

\*Eye irritation: It is not irritating to the eyes.

\*Skin sensitisation: It does not cause hypersensitisation.

#### Substance data

<b>Didecyl dimethyl ammonium chloride</b>	
LD50 (rat), oral	238mg/kg
LD50 (rat), dermal	3,342mg/kg
ATE CLP (oral)	500mg/kg of body weight
Skin irritation (rabbit, 3 min)	Irritating
Sensitization (guinea pig)	Not sensitizing
in vitro genotoxicity	<i>Salmonella typhimurium</i> : Negative Chromosome aberration test: Negative Genetic mutation: Negative
In vivo genotoxicity	Chromosome aberration test: Negative

<b>Cinnamaldehyde</b>	
LD50 (rat), oral	2,220mg/kg
LC50 (rat), inhalation 4h	68.88mg/l
LD50 (rat), dermal	> 2000mg/kg
LD50 (rabbit), dermal	1260mg/kg
Skin corrosion and irritation	Causes skin irritation
Serious eye damage/irritation	Causes serious eye irritation
respiratory sensitization	Not classified
skin sensitization	May produce an allergic reaction on the skin
Germ cell mutagenicity	Not classified
In vitro genotoxicity	<i>Salmonella typhimurium</i> : Negative Micronucleus Assay: Negative
In vivo genotoxicity	no mutagenic effect
carcinogenicity	Not classified
NOAEL (rat, oral)	200 mg/kg bw/day
reproductive toxicity	Not classified
Effects on fertility / fetal development	LOAEL: 5 mg/kg body weight / LOAEL: 1200 body weight in mg/kg

<b>2-phenoxyethanol</b>	
LD50 (rat), oral	300 – 2000mg/kg
LD50 (rabbit), dermal	> 5000mg/kg
LD50 (rat), oral	2740mg/kg
ATE CLP (oral)	500mg/kg of body weight
Irritation	It is not irritating to the skin. Contact with eyes causes irritation
Respiratory / skin sensitization	Not sensitizing
Germ cell mutagenicity	not mutagenic
carcinogenicity	not carcinogenic

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**Corrosiveness:** Not corrosive.  
**Carcinogenicity:** Not carcinogenic  
**Mutagenicity:** Not mutagenic  
**Toxicity for reproduction:** Not toxic for reproduction

## 11.2. Information on other hazards

### 11.2.1. Properties on endocrine alteration

No additional information available.

## 12. SECTION 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity: Chronic aquatic toxicity:

#### Chronic aquatic toxicity:

The product is harmful to aquatic life with long lasting effects  
 In order to avoid human and environmental risks, follow the instructions for use.

#### Substance data

<b>didcyl dimethyl ammonium chloride</b>	
LC50, 96h (Pimephales promelas)	0.19mg/l
NOEC, 34d (Danio rerio)	0.032mg/l
EC50, 48h (Daphnia magna)	0.062mg/l
NOEC, 21d (Daphnia magna)	
ErC50, 96h (Pseudokirchneriella subcapitata)	0.026mg/l
Factor M (acute aquatic toxicity)	10
Factor M (chronic aquatic toxicity)	1
EC50, 3h (activated sludge)	11 mg/l
biodegradability	easily biodegradable

<b>Cinnamaldehyde</b>	
LC50, 96h (Pimephales promelas)	105.76mg/l
EC50, 48h (Daphnia magna)	3.21mg/l
EC50, 48h (Daphnia magna)	119.56mg/l
NOEC, 72h (Pseudokirchneriella subcapitata)	37.23mg/l
EC50, 48h (Tetrahymena pyriformis)	131.19mg/l
biodegradability	easily biodegradable
Bioconcentration factor (BCF)	8.3
Mobility in soil: distribution between environmental compartments	Koc: 29,456 Log Koc: 1,469

<b>2-fenoxiethanol</b>	
CL50, 96h (Pimephales promelas)	> 100 mg/l
CE50, 48h (Daphnia magna)	> 100 mg/l
CE50, 72h (Scenedesmus subspicatus)	> 100 mg/l (biomass)
CE10, 17h (Pseudomonas putida)	> 100 mg/l
NOEC, 34d (Pimephales promelas )	> 1 mg/l
NOEC, 21d (Daphnia magna)	> 1 mg/l
Biodegradability	Easily biodegradable

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### 12.2. Persistence and degradability

The product has powerful bactericide, virucide and fungicide action, hence it could affect the EDAR microbial flora.

It is a surfactant and can cause foam in EDAR.

### 12.3. Bioaccumulative potential

Not available.

2-Fenoxiethanol: Octanol-water partition coefficient (log Kow): 1,2

### 12.4. Movility in soil

Non applicable

### 12.5. Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance

### 12.6. Endocrine disrupting properties

No further information available. This substance does not have endocrine disrupting properties on non-target organisms, as it does not meet the criteria established in section B of Regulation (EU) No. 2017/2100.

### 12.7. Other adverse effects

Harmful to aquatic organisms

## 13. SECITON 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

The product NDP Air Conditioning Plus is harmful to aquatic life with long lasting effects, according to 1272/2008 EC Regulation on classification, labeling and packaging of substances and mixtures. Product surplus or waste resulting from normal use should be separated and eliminated by specialised companies.

## 14. SECTION 14. TRANSPORT INFORMATION

### 14.1. UN number or ID number:

Not applicable

Road/Train transport (ADR/RID): not applicable

Sea transport (IMDG): not applicable

Air transport (IATA): not applicable

The substance is not dangerous for transport (European Agreement on International Transport of Dangerous Goods)

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packaging group



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Not applicable

**14.5. Environmental hazards**

Not applicable

**14.6. Special precautions for user**

Not applicable

**14.7. Maritime transport in bulk according to IMO instruments**

Not applicable

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**15. SECTION 15. REGULATORY INFORMATION**

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

The information for safety and health with respect to the label of this product is in accordance with the European Union regulation: n° 1907/2006, 453/2010, 830/2015 and 878/2020..

**European legislation:** Regulation (EC) n° 1272/2008.

**15.2. Chemical safety assessment:** not required

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**16. SECTION 16. OTHER INFORMATION**

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**Other information:** The text in the SDS which has changed since the last version.

**Complete text of hazard statements as referred to in sections 2 and 3:**

- H226: Flammable liquid and vapour
- H302: Harmful if swallowed
- H312: Harmful in contact with skin
- H314: Causes severe skin burns and eye damage
- H315: Causes skin irritation
- H317: May cause an allergin skin reaction
- H319: Causes serious eye irritation
- H410: Very toxic to aquatic life with long lasting effects

**Formation advice:**

The product must be handled by specialized personnel, following manufacturer instructions. Changes from last version refer to format and content of EC Regulation 453/2010. Calculation method determination according to 1272/2008 EC Regulation has been used for the classification of the mixture.

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