

Reference: Regulation (EC) 1907/2006 453/2010	<b>MATERIAL SAFETY DATA SHEET</b> (MSDS) Product: <b>NDP Air Total + Green CE</b>	Version 06 Date last revision: 13.06.18 SHEET 1 of 8
--	---	---

## 1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF THE COMPANY:

**1.1 Product identifier:** NDP Air Total + Green CE

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

**Use of the substance/preparation:** Disinfection of non-invasive medical devices

**Product classification / Register Number:** Medical Device Type IIa. CE mark, given by ON 0476, number: MED 31348

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

**Manufacturer:** C/Lluçà, 28 5º – 08028 Barcelona - vesimin@vesimin.com

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

**Fax:** +34 933.396.628

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

## 2. HAZARD IDENTIFICATION:

### 2.1. Classification of the substance or mixture

Regulation (CE) 1272/2008\_CLP

EYE IRRITATION. Category 2 (H319)

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE). Category 3. (H336)

HAZARDOUS TO THE AQUATIC ENVIRONMENT – CHRONIC HAZARD.

Category 3 (H412)

### 2.2. Label elements: according to CE Regulation num. 1272/2008 [CLP]

Regulation (CE) 1272/2008\_CLP

**Hazard pictograms:**



**Signal word :** ATTENTION

**Hazard statements:**

- Causes serious eye irritation (H319)
- May cause drowsiness or dizziness (H336)
- Harmful to aquatic life with long lasting effects (H412)

### **Precautionary Statements**

- Avoid breathing vapours. (P261)
- Wear protective gloves/protective clothing/eye protection/face protection. Wash with the hands thoroughly after handling (P280 + P264)
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. (P305+351+338)
- If eye irritation persists get medical advice/attention. (P337+ P313)
- Store in a well-ventilated place. Keep container tightly closed. (P403 + P233)
- Avoid release to the environment (P273)
- Dispose of contents and/or container in accordance with dangerous residues regulations (P501)

Reference: Regulation (EC) 1907/2006 453/2010	<b>MATERIAL SAFETY DATA SHEET</b> (MSDS) Product: <b>NDP Air Total + Green CE</b>	Version 06 Date last revision: 13.06.18 SHEET 2 of 8
--	---	---

### 2.3. Other hazards

**Physical/chemical hazards:** Pressurized bottle

**Human health hazards:** No significant health risks if used under standard conditions of commercial and industrial use. The product is irritating if it comes in contact with eyes, in this case it is recommended to wash immediately, with plenty of water.

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

## 3. COMPONENT COMPOSITION / INFORMATION

### 3.2. Substance/Mixture: Mixture

#### Dangerous components:

Ingredients	CAS num.	Classification 1272/CE*	Conc%
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	Acute tox. 4: H302; Eye irrit. 2: H319	0.10
Cinnamaldehyde	104-55-2	Skin corr 2: H315; Skin Sens. 1: H317; Acuatic tox 4: H312	0.02
Isopropyl alcohol	67-63-0	Flam. liq 2: H225; Eye irrit. 2: H319; STOT SE 3: H336	15 – 20
Excipients and propellant	-	-	Csp. 100

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

## 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 for 15 minutes. Remove contact lens. Rinse the skin with abundant water and soap, do not rub. Do not induce vomiting. Control the breathing, artificial breathing if necessary. 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, respiratory tract and gastrointestinal irritation. Neuronal Central System alteration, headache, dizziness and hallucinations. Serious ventricular arrhythmia, palpitations and pulmonary oedema.

### 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.

Reference: Regulation (EC) 1907/2006 453/2010	<b>MATERIAL SAFETY DATA SHEET</b> (MSDS) Product: <b>NDP Air Total + Green CE</b>	Version 06 Date last revision: 13.06.18 SHEET 3 of 8
--	---	---

---

## 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 should not be used because of security reasons:** Not applicable.

**Special measures:** Cool the bottles pulverizing water to them if they are exposed to fire. Do not use a jet of water. Keep away from sources of ignition – Do not smoke.

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

**Special hazards of fire/explosion:** At high temperatures the propellant is decomposed in toxic and corrosive products: hydrogen fluorides and carbon dioxides.

### 5.3. Advice for firefighters

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

---

## 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

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 floor and all objects with this material using a damp cloth. Collect the cleaning materials and put them inside containers that can be closed.

### 6.4. Reference to other sections

Refer to sections 8 and 13 of SDS.

---

## 7. HANDLING AND STORAGE

---

### 7.1. Precautions for safe handling

**Handling:** Do not smoke. Keep away from ignition sources.

**IMPORTANT:** Bottle under pressure. Avoid exposing it to sunlight and temperatures higher than 50°C. Do not perforate or burn, even after its use. Do not vaporize it near a flame or incandescent object. Handle it following hygienic and security rules.

---

Reference: Regulation (EC) 1907/2006 453/2010	<b>MATERIAL SAFETY DATA SHEET</b> (MSDS) Product: <b>NDP Air Total + Green CE</b>	Version 06 Date last revision: 13.06.18 SHEET 4 of 8
--	---	---

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

**Storage:** Store at room temperature. Avoid extreme temperatures (higher than 50°C) and direct contact with sunlight. Keep away from ignition sources. Do not keep in a place where high temperatures could be reached under the sun (i.e. vehicles).

## 7.3. Specific end use(s)

Surface disinfectant. For professional use only.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Threshold Limit Value (TLV) of Isopropyl alcohol:

- USA: the ACGIH recommends a TWA of 400 ppm (980 mg/m<sup>3</sup>) and a STEL of 500 ppm (1225 mg/m<sup>3</sup>).
- FRANCE INRS VLE 480ppm (980mg/m<sup>3</sup>)
- GERMANY MAK 200ppm (500mg/m<sup>3</sup>)

Exposition limit value for the propellant: 1000 ppm = 4420 mg/m<sup>3</sup>.

Considering the bottle content and the disinfecting volume, these limits are never exceeded.

### 8.2. Exposure controls

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

**Equipment to provide adequate personal protection:** non specific protection equipment is required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

**Aspect:** Liquid (actives) + Gas (Propellant)

**Odour:** characteristic (alcohol)

**pH :** 6.5 – 8.5 (20 °C)

**Solubility in water:** 100% soluble (20 °C)

**Density (active product without propellant):** 0.784 – 0.804 g/cc

**Flammability:** Non-flammable

### 9.2. Other information

#### Data for Isopropyl Alcohol

**Flash Point:** 12 °C

**Relative density of vapour:** > 1.0

**Octanol-water partition coefficient:** log P<sub>ow</sub> = 0.05

#### Data for the Propellant

**Vapour pressure:** P<sub>v</sub> (20°C) = 5.0 bar

**Vapour density (air = 1):** 4.32 (20°C)

**Octanol-water partition coefficient:** log P<sub>ow</sub> = 1.06

## 10. STABILITY AND REACTIVITY

Reference: Regulation (EC) 1907/2006 453/2010	<b>MATERIAL SAFETY DATA SHEET</b> (MSDS) Product: <b>NDP Air Total + Green CE</b>	Version 06 Date last revision: 13.06.18 SHEET 5 of 8
--	---	---

### 10.1. Reactivity

It does not present dangerous reactions. The solutions don't react with acids, bases, oxidising agents, organic peroxides, molecules with sulfhydryc groups or heavy metals. It is non-stable in presence of strong oxidising agents or strong bases.

### 10.2. Chemical stability

Product is stable in recommended conditions of handling and storage.

### 10.3 Possibility of hazardous reactions

It does not present.

### 10.4. Conditions to avoid

Keep the product far from Ignition and Heat Sources. The propellant can produce dangerous gases in case of decomposition, in contact with a flame or heat metal surfaces.

### 10.5. Incompatible materials

Non applicable

### 10.6. Hazardous decomposition products

Non applicable.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity:

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

Inhalation route: The concentration during the use of the product has been studied, and has been correlated with its constituents' toxicity, resulting to be not toxic by inhalation way.

Through skin and/or eyes: LD<sub>50</sub> (dermal way) > 2000 mg/kg

\*Skin irritation: It is not irritating. Pure isopropanol is irritating, but the product concentration is not irritating according to CLP Regulation.

\*Eye irritation: It is irritating to the eyes. Pure isopropyl alcohol is irritating, and at the product concentration it is irritating according to CLP Regulation: the product is irritating for the eyes.

\*Skin sensitisation: It does not cause hypersensitisation.

The propellant is nearly not harmful by inhalation: LC<sub>50</sub>/inhalation/4h/rodent > 500.000 ppm. As other volatile aliphatic halogenated compounds, the product can produce, by vapour accumulation and/or inhalation in great quantities, consciousness loss and heart disorders aggravated by stress and oxygen lack (mortal risk).

Pure isopropyl alcohol is irritating by inhalation and to the eyes. It is slightly toxic in contact with the skin.

**Corrosiveness:** Non corrosive.

**Carcinogenicity:** Non carcinogenic

**Mutagenicity:** Non mutagenic

**Toxicity for reproduction:** Non toxic for reproduction

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity: Chronic aquatic toxicity:

Reference: Regulation (EC) 1907/2006 453/2010	<b>MATERIAL SAFETY DATA SHEET</b> (MSDS) Product: <b>NDP Air Total + Green CE</b>	Version 06 Date last revision: 13.06.18 SHEET 6 of 8
--	---	---

The product is harmful to aquatic life with long lasting effects

In order to avoid human and environmental risks, follow the instructions for use.

### 12.2. Persistence and degradability

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

It contains surfactant and therefore can cause foam in EDAR.

### 12.3. Bioaccumulative potential

Not available.

### 12.4. Movility in soil

Not available

### 12.5. Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance

### 12.6. Other adverse effects

Harmful to aquatic organisms

Summary ecological information:

#### Isopropyl alcohol

- *Mobility:*
  - The product is soluble in water and it will probably remain in water.
- *Persistence and degradability:*
  - Easily biodegradable, according to OECD standards.
  - Easily eliminated in a sewage treatment.
- *Bioaccumulation:*
  - A low acute toxicity is predicted for aquatic organisms.
  - No long-term effects are predicted for aquatic organisms.

#### Propellent :

- *Persistence and degradability:*
  - Degradation in atmosphere:  $T_{1/2}$  life = 18 days. Ozone potential destruction: PDO =0. Potential global warming (PGW)<1.
- *Bioaccumulation:*
- Almost non bioaccumulable,  $\log P_{ow}=1.6$

---

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Package product surplus or waste resulting from normal use. Label it for identification purposes and seal it. Dirty, empty recipients should be handled in the same manner. The product may be taken to a controlled incineration site, always according to local regulations.

---

## 14. TRANSPORT INFORMATION

Reference: Regulation (EC) 1907/2006 453/2010	<b>MATERIAL SAFETY DATA SHEET</b> (MSDS) Product: <b>NDP Air Total + Green CE</b>	Version 06 Date last revision: 13.06.18 SHEET 7 of 8
--	---	---

**14.1. UN number**

1950

**14.2. UN proper shipping name**

Non flammable aerosol

**14.3. Transport hazard class(es)**

Class 2.2

**14.4. Packaging group**

N.A.

**14.5. Environmental hazards**

Not applicable

**14.6. Special precautions for user**

Not applicable

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

ONU number: 1950

**ADR/RID Classification:**

- Class: 2 (Gas)
- Classification: 5A
- Label: 2.2

**IMDG Classification:**

- Class: 2.2

**Air (IATA/ICAO):**

ONU 1950 – Non flammable aerosol

Division 2.2 – Non flammable gases

Special provision A98

Passenger aircraft: Packaging instructions 203/Y203 or 204/Y204

Max. net quantity 75 kg/30 kg

Cargo aircraft: Packaging instructions 203 o 204

Max. net quantity 150 kg

---

**15. REGULATORY INFORMATION**


---

**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 and 830/2015.

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

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

---

**16. OTHER INFORMATION**


---

Reference: Regulation (EC) 1907/2006 453/2010	<b>MATERIAL SAFETY DATA SHEET</b> (MSDS) Product: <b>NDP Air Total + Green CE</b>	Version 06 Date last revision: 13.06.18 SHEET 8 of 8
--	---	---

**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:**

H225: Highly flammable liquid and vapour  
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  
H336: May cause drowsiness of dizziness  
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 Regulation has been used for the classification of the mixture.

**Vesimin S.L.** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

**Vesimin S.L.** makes no representations or warranties, either express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Vesimin S.L. will not be responsible for damages resulting form use or reliance upon this information.