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| Reference:<br>Regulation (EC)<br>1907/2006<br>453/2010 | <b>MATERIAL SAFETY DATA SHEET</b><br>(MSDS)<br>Product: <b>NDP Med Surfaces Plus</b> | Version 12<br>Date last revision:<br>02.03.22<br>SHEET 1 of 8 |
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## 1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND THE COMPANY:

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**1.1 Product identifier:** NDP Med Surfaces Plus

**1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/preparation:** Disinfectant (bactericidal, fungicidal, mycobactericidal and sporicidal) for non invasive medical devices, critical and semicritical surfaces.

**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:** Vesimin S.L. C/Aribau 230-240, 6th floor, L-O - 08006 Barcelona  
vesimin@vesimin.com

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

**Fax:** +34 933 396 628

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

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

**Servicio Médico de Información Toxicológica: +34 915 620 420 (Instituto Nacional de Toxicología)**

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## 2. HAZARDS IDENTIFICATION:

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

Regulation (CE) 1272/2008\_CLP

ORAL ACUTE TOXICITY, category 4 (H302)

SKIN CORROSION, category 1A (H314)

EYE IRRITATION, category 1 (H318)

STOT (REPEATED EXPOSURE), category 2 (H373)

HAZARDOUS TO THE AQUATIC ENVIRONMENT – CHRONIC HAZARD. Category 2 (H411)

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

Hazard pictograms



Signal Word: Danger

Hazard statements:

- Harmful if swallowed (H302)
  - Causes severe skin burns and eye damage (H314)
  - Causes serious eye damage (H318)
  - May cause damage to organs through prolonged or repeated exposure (H373)
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Toxic to aquatic life with long lasting effects (H411)

Precautionary statements:

- Wash the skin thoroughly after handling (P264)
- Do not eat, drink or smoke when using this product (P270)
- Wear protective gloves/protective clothing/eye protection/face protection (P280)
- Avoid release to the environment. (P273)
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301+P330+P331)
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower (P303+P361+P353)
- Wash contaminated clothing before reuse (P363)
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
- Immediately call a POISON CENTER/doctor/... (P310)
- Collect spillage (P391)
- Dispose of contents and/or container in accordance with dangerous residues regulations (P501)

### 2.3. Other hazards

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

The concentrated product is harmful by ingestion, corrosive to the skin, irritating to the eyes and skin and may cause damage to organs through prolonged or repeated exposure. It is not dangerous at use dilutions (2%).

Effects of the product misuse: eye and skin splashes (irritation), intoxication (oral intake). We recommend the use of gloves and goggles for concentration product handling and dilutions preparation.

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

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

### 3.2. Substance/Mixture: Mixture

**Dangerous components:**

| Ingredients                     | CAS num.    | Classification 1272/2008  | Conc%  |
|---------------------------------|-------------|---|--------|
| N-Duopropenide                  | 308074-50-2 | Oral acute tox. Cat. 4:H302,<br>Eye irrit. Cat. 2:H319,<br>Skin irrit. Cat. 2:H315,<br>Chronic aquatic. Cat 2:H411    | 22.76% |
| Bis-3(aminopropyl) dodecylamine | 2372-82-9   | Oral acute tox. Cat. 3:H301,<br>Skin corrosion. Cat. 1A:H314,<br>STOT SE. Cat.2:H373,<br>Chronic aquatic. Cat. 1:H410 | 10%    |
| Phenoxyethanol                  | 122-99-6    | Oral acute tox. Cat. 4:H302<br>Eye irrit. Cat. 2:H319   | 5%     |

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| Excipients and water | - | - | Csp. 100 |
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\* Complete text of Risk phrases indicated in this Section are explained in Section 16.

## 4. FIRST AID MEASURES:

### 4.1. Description of first aid measures

#### First aid measures:

**Swallowing:** (\*) Rinse mouth with water and require immediately medical assistance. Do not administer anything to an unconscious person.

**Inhalation:** Not applicable, it doesn't release vapours.

**Skin contact:** Take off contaminated clothes. In case of skin contact, wash with plenty of water & soap, and seek for medical advice.

**Eye contact:** Wash with plenty of water for at least 15 minutes. If irritation persists, consult an ophthalmologist.

(\*) Information for the doctor: do not induce vomiting. Make a stomach-pumping previous addition of dimeticone (antifoam).

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

**Effects and symptoms:** No specific effects and/or symptoms are known

### 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. 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 and produced gases:** Non flammable product. In case of fire of great magnitude, 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. ACCIDENTAL RELEASE MEASURES:

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

**Personal precautions:** Take common precautions

## 6.2. Environmental precautions

**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 put them inside containers that can be closed.

**Additional information:** the product is surfactant, it can produce a great quantity of foam.

## 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:** Take measures to avoid splashing in the eyes and on skin. Do not use or mix with products containing or that release chlorine (hypochlorites) and/or mercurial products, and products that contain anionic surfactants.

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

**Storage:** Store in high density polyethylene containers. Store at room temperature and avoid extreme temperatures and direct contact with sunlight. Store at an optimal temperature between 10° and 30°C. Store only in original containers.

### 7.3. Specific end use(s)

Surface disinfectant. For professional use only.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Non applicable

### 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).

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

**Aspect:** Liquid, in amber colour – transparent yellow

**Odour:** Perceptible

**pH (100% in water):** 7 – 9 (20 °C)

**Water solubility:** 100% soluble

**Density:** 1,010 – 1,050 g/cc (20°C)

**Viscosity:** 70-120 cP (20 °C)

**Boiling point :** Approximately 95 °C

**Flammability:** Non-flammable

(\*\*) pH can be slightly reduced within the course of time, without reduction of germicide effect.

### 9.2. Other information

**Data for Active Substance** (N-Duopropenide 45.52%)

**Vapour pressure:**  $P_v$  (20°C) = 24.8 Pa

**Octanol-water partition coefficient:**  $\log P_{ow}$  = 1.66

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## 10. STABILITY AND REACTIVITY

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### 10.1. Reactivity

It does not present dangerous reactions. It does not react with heavy metals, except with mercury. Unstable in presence of strong oxidizers. It is not corrosive on different materials.

### 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

Avoid temperatures above 30°C and below 0°C

### 10.5. Incompatible materials

Do not use or mix with products containing or that release chlorine (hypochlorites) and/or mercurial products, and products that contain anionic surfactants.

### 10.6. Hazardous decomposition products

Non applicable.

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## 11. TOXICOLOGICAL INFORMATION

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### 11.1. Information on toxicological effects

#### Acute toxicity:

Oral route: Harmful by oral ingestion.  $DL_{50}$  (oral route in rodents): 300 – 2000 mg/kg

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Inhalation route: Not applicable.

Through skin and/or eyes: DL50 (dermal): > 2000 mg/kg

\*Skin irritation: The pure product can cause severe burnings on skin. At use concentrations (2%) it is not irritating.

\*Eye irritation: The pure product can cause severe eye damage. At use concentrations (2%) it does not irritate the eyes.

\*Skin sensitisation: It does not cause hypersensitisation.

### **Specific Target Organ Toxicity (repeated exposure):**

May cause damage to organs through prolonged or repeated exposure

**Carcinogenicity**: Not carcinogenic

**Mutagenicity**: Not mutagenic

**Toxicity for reproduction**: Not toxic for reproduction

## **12. ECOLOGICAL INFORMATION**

### **12.1. Toxicity: Chronic aquatic toxicity:**

The product is toxic 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 a high bactericide, virucide, fungicide and sporicide 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.

### **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

Mobility data for the Active Technical Ingredient (N-Duopropenide / Quaternary ammonium iodides in 45.52 %)

- Adsorption/desorption test: Adsorption coefficient,  $K'$ : 0.198 / 0.564 / 0.692.  
Adsorption coefficient, as organic carbon function  $K'_{oc}$ : 7.935 / 22.656 / 27.774. It is demonstrated the high affinity to soils, it is clear that in case of soil contamination, the ground-water contamination risk is very low.
- Octanol-water partition coefficient:  $\log P_{ow} = 1.66$

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### 13. DISPOSAL CONSIDERATIONS

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#### 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.

The product dilutions (2%) once used can be disposed to the sewer system. Product dilutions (2%) do not suppose any risk for the Environment according the EC Regulation 1272/2008 on classification, labelling and packaging of substances and mixtures.

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### 14. TRANSPORT INFORMATION

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#### 14.1. UN number

1760

#### 14.2. UN proper shipping name

Corrosive liquid n.o.s. (contains Bis-3 (aminopropyl) dodecylamine)

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

Class 8

#### 14.4. Packaging group

Packing group III

#### 14.5. Environmental hazards

Toxic to aquatic life with long lasting effects

#### 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

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### 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 and 830/2015.  
**European legislation:** Regulation EC 1272/2008.

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

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### 16. OTHER INFORMATION

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

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

H301: Toxic if swallowed  
H302: Harmful if swallowed  
H314: Causes severe skin burns and eye damage  
H315: Causes skin irritation  
H319: Causes serious eye irritation  
H373: May cause damage to organs through prolonged or repeated exposure  
H410: Very toxic to aquatic life with long lasting effects  
H411: 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 Regulation 1272/2008 has been used for the classification of the mixture.

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