

Reference: Regulation (EC) 1907/2006 878/2020	MATERIAL SAFETY DATA SHEET (MSDS) Product: NDP Surfaplus	Version 09 Date last revision: 23.11.23 SHEET 1 of 10
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1. SECTION 1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF THE COMPANY:

1.1. Product identifier: NDP Surfaplus

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance: Surface and medical devices disinfectant.

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.U. 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

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

2. SECTION 2. HAZARD IDENTIFICATION:

2.1. Classification of the substance or mixture

Regulation (CE) 1272/2008_CLP

FLAMMABLE LIQUID, category 2 (H225)

EYE IRRITATION, category 2 (H319)

STOT SE, category 3 (H336)

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

2.2. Label elements: according to CE Directives

Regulation (CE) 1272/2008_CLP

Hazard pictograms:



Signal Word: danger

Hazard statements:

- Highly flammable liquid and vapour (H225)
- Causes serious eye irritation (H319)
- May cause drowsiness or dizziness (H336)
- Harmful to aquatic life with long lasting effects (H412)

Precautionary statements:

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking (P210)
 - Wash the skin thoroughly after handling (P264)
 - Wear protective gloves/eye protection (P280)
 - Avoid release to the environment (P273)
 - IF ON SKIN: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower (P303+P361+P353)
 - If eye irritation persists: Get medical advice/attention (P337+P313)
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
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present and easy to do. Continue rinsing (P305+P351+P338)

- Store in a well-ventilated place. Keep cool (P403 + P235)
- Store in a well-ventilated place. Keep container tightly closed (P403 + P233)
- Dispose of contents/container in accordance with local regulations (P501)

2.3. Other hazards

Flammable (Isopropyl alcohol)

No significant environmental or health risks if used under standard conditions of commercial and industrial use. We recommend the use of gloves and protection glasses.

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	N° CAS / N° Reg REACH	Classification 1272/2008	Concentration
Didecyl dimethyl ammonium chloride 70%	7173-51-5	Flamm. liq Cat.3: H226, Oral acute tox.Cat. 4:H302 Skin corr. Cat. 1B: H314 Chronic aquatic Cat 1.:H410	0.46%
2-Phenoxyethanol	122-99-6 / 01-2119488943-21-0000, 01-2119488943-21-0006	Oral acute tox. . Cat. 4:H302 Eye irrit. Cat. 2:H319	0.10%
Cinnamaldehyde	104-55-2 / 01-2119935242-45-0001	Skin acute tox. Cat.4:H312 Skin irrit. Cat 2. H315 Skin sens.Cat.1: H317	0.02%
Isopropyl alcohol	67-63-0	Flam liq Cat.2: H225 Eye irrit. Cat. 2:H319 STOT SE. Cat.3: H336	30.0%
Excipients and water	-	-	qsf 100 %

* Complete text of H phrases 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:

Swallowing: (*) Rinse mouth with water and require immediately medical assistance.

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Only if the patient is conscious, give him water to drink.

Inhalation: Not applicable

Skin contact: Wash with plenty of water & soap. If irritation persists, 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. Dangers derived from ethanol: headache, vertigo, sickness, narcosis, drowsiness. Ingestion can cause inebriation, coma. Skin, eyes and respiratory tract irritation.

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, CO₂, 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: Flammable product, contains ethyl alcohol. In case of fire of great magnitude, amine vapours could be generated.

5.3. Special hazards arising from the substance or mixture

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. Avoid the contact with skin and eyes. Ventilate the contaminated zone. Do not inhale vapours. Extinguish the flames. Eliminate ignition sources. Do not smoke. Avoid sparks. Evacuate non necessary personnel.

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 floor and all objects

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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, 12 and 13 of SDS.

7. SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

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 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 the original containers.

7.3. Specific end use(s)

Surface disinfectant. For professional use only.

8. SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Threshold Limit Value (TLV) of Isopropyl alcohol: The ACGIH recommends a TWA of 400 ppm (980 mg/m³) and a STEL of 500 ppm (1225 mg/m³).

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 ³
	Consumers	Cutaneous	Long term – systemic effects	20.83mg/kg
	Consumers	Inhalation	Long and short term – local effects	2.5mg/m ³
	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.

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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

9.1. Information on basic physical and chemical properties

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

Odour: Perceptible

Melting point / freezing point: Not available

Boiling point : Not available

Flammability: Flammable

Upper and lower explosive limit: Not available

Auto-ignition temperature: Closed flash point: 24°C

Decomposition temperature: Not available

pH (100% in water): 4,5 – 6,5 (20 °C)

Viscosity: Not available

Water solubility: 100% soluble

Partition coefficient n-octanol/water (Log Know): Not available

Vapour pressure: Not available

Density: 0,90 – 1,01 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

Data for Isopropyl Alcohol

Flash Point: 12 °C

Relative density of vapour: > 1.0

10. SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

It does not present dangerous reactions. It does not react with acids, bases, oxydating agents, organic peroxides, molecules with sulfhydryc groups or heavy metals. Unstable in presence of strong oxidizers or strong alkalines. Non corrosive on different materials.

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

Non applicable

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

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Non applicable.

11. SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity:

Oral route: DL₅₀ (oral route in rodents) > 2000 mg/kg Not harmful by oral ingestion.

Inhalation route: Non toxic by inhalation

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

*Skin irritation: It is not irritating.

*Eye irritation: Irritating to the eyes.

*Skin sensitisation: It does not cause hypersensitisation.

Substance data

Didecyl dimethyl ammonium chloride	
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

Cinnamaldehyde	
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

2-phenoxyethanol	
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

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carcinogenicity	not carcinogenic
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Isopropanol	
LD50 (rat), oral	5000 mg/kg
LD50 (rabbit), dermal	12.800 mg/kg
LC50 (rat), inhalation	500 mg/lg
Eye irritation	Irritating
Dermal irritation	Slightly irritating
Mutagenicity	Mutagenicity in germinal cells Genotoxicity in vitro: Negative
Carcinogenicity	Non carcinogenic
Toxicity for reproduction	Not known

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:

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

didecyl dimethyl ammonium chloride	
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)	11mg/l
biodegradability	easily biodegradable

Cinnamaldehyde	
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

2-fenoxiethanol	
CL50, 96h (Pimephales promelas)	> 100 mg/l

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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

Isopropanol	
EC50/LC50, 48h (Daphnia magna)	> 100 mg/l
EC50, 72h (Scenedesmus subspicatus)	> 100 mg/l

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.

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

Isopropyl alcohol: Octanol-water partition coefficient (log Kow): ≤ 4

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. 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

Summary of 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.

13. SECTION 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.

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14. SECTION 14. TRANSPORT INFORMATION

14.1. UN number or ID number:

1993

14.2. UN proper shipping name

Flammable liquid, n.e.p. (contains isopropanol)

14.3. Transport hazard class(es)

Class 3

14.4. Packaging group

Group III

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

ADR Classification:

- ONU number: 1993
- Class: 3
- Classification code: F1
- Packaging group: III
- Label: 3 (Flammable)
- Risk:30

IMDG Classification:

- Class: 3

Air (IATA/ICAO):

ONU 1993 – Flammable liquid n.e.p.

Label: Flammable liquid

Class 3

Special provisions A3

Packaging group III

Passenger aircraft: Packaging instructions 355/Y344

Max. net quantity 60L/10L

Cargo aircraft: Packaging instructions 366

Maximum net quantity: 220 L

15. SECTION 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, 830/2015 and 878/2020.

European legislation: Regulation EC 1272/2008.

15.2. Chemical safety assessment: not required

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16. SECTION 16. OTHER INFORMATION

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 allergic skin reaction.
- H319: Causes serious eye irritation
- H336: May cause drowsiness or 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 Regulation 1272/2008 has been used for the classification of the mixture.

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