

1. Composition / Components Information

Gel made of volatile polymer containing natural raw materials and/or synthetics from perfumery.

2. Risk Identification

Health: This product might cause skin irritation. Avoid direct contact with the skin.
Environmental effects: None

3. First Aids

Inhalation: N/A
Contact with the skin: Wash the skin with clear water. Consult your doctor if the irritation persists.
Contact with the eyes: Rinse the eyes with clear water. Consult your doctor if the irritation persists
Ingestion: Wash mouth with water and consult your doctor immediately. Do not cause vomit.

4. Fire Fighting Measures

Adequate fire extinguishing: Carbon Dioxide (CO₂) or powder fire extinguishers
Other means: Foam or Halogen fire extinguishers.
Not recommended methods: Direct water stream or water spray fog

5. Accidental Release Measures

Personal Precautions: Avoid contact with the skin

6. Handling and Storage

Handling: Avoid skin and eye contact. Use protecting gloves. Do not heat on fire
Storage: Keep on original package, closed. Do not allow contact with oxidizing agents unless they are approved.

7. Exposure Control / Personal Protection

Hygienic Measures: Do not ingest. Do not inhale gel vapours
Equipment to provide adequate personal protection:
Non specific protection required except to avoid contact with the skin.

8. Physical and Chemical Properties

Aspect: Solid
Colour: Transparent Orange
Odour: Characteristic
pH: N/A
Flammability: > 100 °C
Density: 880-920 Kg/m³
Viscosity: N/A
Solubility in Water: Non soluble

9. Stability and Reactivity

Storage Time: 1 year, keeping Zero Smell in its original packaging at a temperature under 35 °C protected from direct sunlight.
Reactivity: Keep the product away from oxidizing agents.

10. Toxicological Information

Acute Toxicity:
DL50 (Oral route in rodents): >5000 mg/Kg
Primary toxicity
Skin: Irritant
Eyes: Slightly irritant

11. Ecological Information

Degradability Easily biodegradable

Information in this document is based on our current knowledge on this product and is not guaranty of its properties. Knowledge of actual laws and directives are responsibility of the product user.

12. Disposal Considerations

Product and Package: According to local regulations.

13. Transport Information

No risk for transportation by air, sea or ground.

14. Regulatory Information

Product not classified as dangerous according to European Directive 88/379 CEE.

Product must be handled wearing latex protecting gloves.

15. Other Information

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

Commercial product name: NDP Air Total
Use of the substance: Disinfectant (bactericide and fungicide)
Register num. DGSPyC: 02-20/40-02789 -02-20/40-02789 HA
Manufacturer: Vesismín S.L.
Responsible for distribution: Vesismín S.L.
Gran Vía Carlos III, 94 - 08028 Barcelona
Telephone number: +34 934 095 301
Fax: +34 933 396 628

2. COMPONENT COMPOSITION / INFORMATION

Substance/Preparation: Preparation
Chemical name of the components:

Ingredient	CAS num.	Symbol	Risk Phrases	Concentration
N-Duopropenide	308074-50-2	Xn	R22	0.46%
Isopropyl alcohol	67-63-0	F	R11	18.5%
Excipients and propellant HFC 134a	811-97-2			qsf 100 %

Product type: Spray bottle, non-flammable
Hazard constituents/carcinogenic substances: None

3. HAZARD IDENTIFICATION:

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.

4. FIRST AID MEASURES:

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

The intoxication can produce: eye, skin, mucus, respiratory tract and gastrointestinal, irritation, with nausea, vomiting, and diarrhoea. Tachycardia, hypotension, hypothermia, collapse, coma, pulmonary edema, metabolic acidose, metal taste. SNC depression.

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 leave alone the patient in any case.

Therapeutic advice: In case of ingestion, consider making an endoscope. In absence of damages, activated carbon and saline cathartic can be administrated. In case of convulsions, administer Diazepam. Symptomatic treatment.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Foam, dry chemical powder, CO₂, 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.

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

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

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions: Take common 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.

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

7. HANDLING AND STORAGE

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.

Storage: Store at room temperature. Avoid extreme temperatures (higher than 50°C) and direct contact with sunlight. Keep away from ignition sources.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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

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).

Exposition limit value for the propellant: 1000 ppm = 4420 mg/m³.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Aspect: Liquid (NDP+alcohol) + Gas (Propellant)

Odour: characteristic (alcohol)

pH (10% in water): 3.5 – 4.5 (20 °C)

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

Pressure: 5.5 kg/cm² (20°C)

Flammability: Non-flammable

Data for Active Substance (N-Duopropenide 45.52%)

Vapour pressure: Pv (20°C) = 24.8 Pa

Octanol-water partition coefficient: log Pow = 1.66

Data for Isopropyl Alcohol

Flash Point: 12 °C

Relative density of vapour: > 1.0

10. STABILITY AND REACTIVITY

Stability: Product is stable in recommended conditions of handling and storage.

Reactivity: Keep the product far from Ignition and Heat Sources.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral route: DL50 (oral route in rodents) > 2000 mg/kg. It is not harmful by ingestion. The pure active ingredient NDP is harmful, but in the product it is present at concentrations lower to the established limit.

Inhalation route: The concentration of NDP generated 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: LD50 (dermal way) > 2000 mg/kg

*Skin irritation: It is not irritating. The pure active ingredient NDP is irritating, but the product concentration is not irritating according to RD 255/2003 (European Directive 88/379/CEE). However, the obtained value considering NDP and alcohol is very close to

the established limit, and it has been decided to classify the product as irritating for the skin.

*Eye irritation: It is not irritating to the eyes. The pure active ingredient NDP is irritating; at 0.46% of Iodides it does not irritate the eyes. Pure isopropyl alcohol is irritating, but at the product concentration it is not irritating according to RD 255/2003 (European Directive 88/379/CEE).

However, the obtained value considering NDP and alcohol is very close to the established limit, and it has been decided to classify the product as irritating for the eyes.

*Skin sensitisation: It does not cause hyper sensitisation.

The propellant is nearly not harmful by inhalation: LC50/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

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

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

It contains surfactant and therefore can cause foam in EDAR.

Summary ecological information:

-Duopropenide (45.52% Quaternary ammonium iodides)

Mobility:

- 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: $\log Pow = 1.66$

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.

Propellant (Forane 134a):

- Mobility:

- Evaporation: $T_{1/2}$ life = 3 h (estimation)

- Persistence and degradability:

- In water it is not easily biodegradable (3% after 28 days). Degradation in atmosphere: $T_{1/2}$ life = 8.6 – 16.7 y. Ozone potential destruction: PDO ($R_{11}=1$)=0. Potential global warming (PGW)=0.3.

- Bioaccumulation:

- Almost non bioaccumulable, $\log Pow=1.06$

13. DISPOSAL CONSIDERATIONS

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

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

EC standards and regulations:**Symbols of danger:**

Xi: Irritating to eyes

Risk Phrases (R):

R 36 Irritating to eyes

R67 Vapours may cause drowsiness and dizziness

Safety Phrases (S):

S2 Keep out of the reach of children

S13 Keep away from food, drink and animal foodstuffs

S23 Do not breathe spray

S24/25 Avoid contact with skin and eyes

S45 In case of accident or if you feel unwell, seek medical advice immediately and show the label if possible

The information for safety and health with respect to the label of this product is in accordance with the European Union regulation (European Directive 93/112/EC).

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ZEROSMELL

ZERO SMELL – GEL:

The scents we detect are produced by volatile molecules that come off different materials and are held by our olfactory system and thanks to it we can sense it.

Emitter agents of bad scents mainly are: biological processes such as organic products degradation (wastes, remainders, etc, mainly by bacterial action), Industrial and storage and transformation of residues.

Those scents we define as "Bad" contain atoms of: Sulphur and/or Nitrogen often with double link structure: Marcapthane, amines, terpens and, of course the SKATOL present in excrement. These are the smells we reject for the bad impressions they cause on us.

In those places where VELTIA is usually installed bad scents are particularly disgusting and they are boosted by a high moisture environment.

Because of former reasons we have decided to include a high value feature: **ZERO SMELL – GEL.**

Olfactive Silence: Bad smells elimination by ZERO SMELL – GEL

The volatile elements that compose bad scents are highly reactive especially with oxygen, ozone and free radicals and reacting with these the elements that cause bad odours get oxide and chemically reduced changing the olfactory sensation they produce.

"**Olfactive Silence**", the gel we have included in VELTIA, reacts very actively with bad smells molecules neutralizing them in a very efficiently way with a long lasting effect. The next figure shows how it works

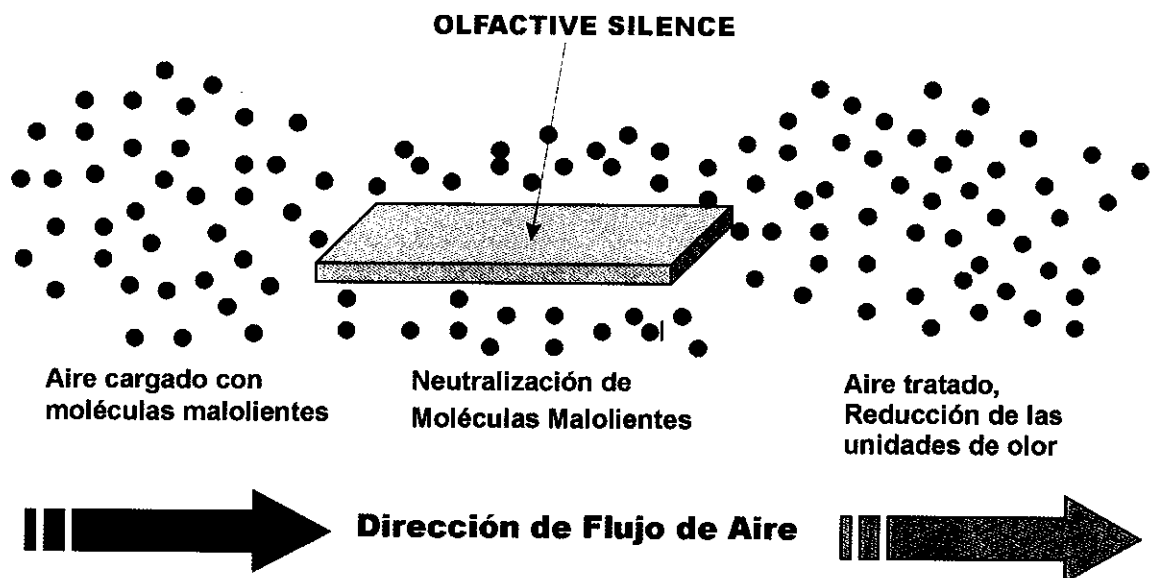


Figure 1.

ZERO SMELL – GEL, releases neutralizing active agents according to air temperature and flow, linearly and slowly. When these agents get in contact with bad smelling molecules they react chemically neutralizing mutually as shown in figure N° 1.

Alter this chemical reaction these gases are almost odourless and it is the great volatility of these active agents what allows a high effectiveness since the odour

ZeroSmell



olor 0.0

New Generation Hand Dryer

elimination is done on a Gas to Gas basis. With the appropriate disposition we have got an elimination rate over 90% of bad scents volume.

ZERO SMELL – GEL effectiveness is high enough to be used to fight corrosive contents in the air, such as sulphuric acid from water treatment plants or sewer network.

ZERO SMELL – GEL works for long periods of time (3 to 4 months) and it is effective even after getting wet.

Moreover, **ZERO SMELL – GEL** is safe for both people and environment. It is easy to handle and it can be treated as a domestic waste. Its disposal must be done as dictated by local regulations.

ZERO SMELL – GEL presentation is arranged to last 1 year of normal operation at a very attractive cost to the end user assuring a fresh and clean environment in those locations where VELTIA is installed. This is another exclusivity of our hand dryer.



MATERIAL SAFETY DATA SHEET

CLORIVELT

CODE: 01-008/01/07

CREATION: JANUARY 07

REVISION:

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

Commercial product name: CLORIVELT

Product Description: Biocide tablets disinfectants, specially indicated for the treatment of prevention, disinfections and maintenance of water of condensation of splits, fancoils, air conditioner systems and similar systems based on action biocide of Chloramine T.

Manufacturer/Distribution: EMINFOR S.L.

Polígono Industrial Les Comes. C/ Dinamarca 5, Nº 6. 08700 Igualada (Barcelona)

Telf. 93 806 63 22 / Fax. 93 804 49 08

2. COMPONENT COMPOSITION / INFORMATION

Composition

Cas-No: 127-65-1

Symbol: Xi

EINECS:

R-phrases: R31/36/38

3. HAZARD IDENTIFICATION:

Human health hazards: Irritating in contact with eyes and skin. In contact with acids liberates toxic gases.

4. FIRST AID MEASURES

Effects and symptoms: Causes injury to the cornea and eyelids. Causes burns. It may intoxicate by inhalation and skin contact.

General: Obtain medical attention immediately (Show this safety data sheet)

Inhalation: Move to fresh air, rest, half upright position, loosen clothing. Oxygen or artificial respiration if there is difficulty in breathing. Seek medical advice after significant exposure.

Skin: Remove all contaminated clothing immediately. Wash off with plenty of soap and water. Always seek medical advice. Launder clothes before reuse.

Eye: Rinse immediately and as long as possible with plenty of water. Always seek medical advice.

Ingestion: Only when conscious, rinse mouth; give plenty of water to drink. DO NOT induce vomiting. Seek medical advice.

Advise: In case of poisoning please call to the appropriate institute of toxicology.

In Spain: National Institute of Toxicology. Tel: Phone: +34 91 562 04 20

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Foam, Powder, Water spray, Carbon dioxide

Protective equipment: Wear self contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Do not breathe dust. Avoid contact with skin and eyes.

Environmental precautions: Do not allow to escape into sewage system or water courses.

Cleaning Measures: Collect as much as possible in a clean container for reuse or disposal. Flush remainder with water.

7. HANDLING AND STORAGE

Handling: Usual precautions for handling chemicals should be observed

Storage: Keep in cool place. Keep container tightly closed and dry



MATERIAL SAFETY DATA SHEET

CLORIVELT

CODE: 01-008/01/07

CREATION: JANUARY 07

REVISION:

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: No exposure limit has been established

Personal protection:

Hand: Protective gloves

Eyes: Safety goggles

Respiratory: In case of dust formation use dust mask

Skin and body: Protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Tablets
Colour: Blue-greenish
Odour: Slightly chlorine
pH (pure product): -
pH (solution 5%): -
pH (solution 10%): -
Solubility: soluble in water

10. STABILITY AND REACTIVITY

Conditions to avoid: Contact with acids liberates toxic gas.

Materials to avoid: Acids.

Hazard decompositions products: Chlorine.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: LD50: 1000 mg/Kg

Irritation: **Skin:** Irritant

Eyes: Irritant

Solution 5%: Non irritant

Toxicity for Reproduction: Ames Text: Non mutagenic
Micronucleus Test: Non mutagenic

12. ECOLOGICAL INFORMATION

Ecological toxicity: Fish: 96 h-LC50: 310 mg/L
Dafnia: 48 h-EC50: 5,5 mg/L

Mobility: Product soluble in water

Degradation: Readily biodegradable (low concentration)

13. DISPOSAL CONSIDERATIONS

Elimination according to local regulations

14. TRANSPORT INFORMATION

No subject to the disposition of the ADR

15. REGULATORY INFORMATION

It label according to classification CEE: 017-002-01-X

Symbol of Danger: Xi: Irritating

Risk phrases (R): **R31:** In contact with acids it liberates toxic gas

R36/37: Irritant to Eyes and Skin

Safety phrases (S): **S26:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S46: In case of ingestion, seek medical immediately and show the label where possible.