

SAFETY DATA SHEET - NVIROCLEAN

Material safety data sheet According to 1907/2006/EC (REACH), 453/2010/EC

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** **Product Name: NVIROCLEAN**
Trade Name: Zeromell Soap Odour neutralizer
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:** Odor-neutralizing soap
- 1.3. Details of the supplier of the safety data sheet:** Veltek Systems, S.L.
Pare Rodés, 26, 3º planta, Torre A, 1º 7ª
08208 Sabadell - Barcelona - Spain
- 1.4. Emergency telephone number:** Ins. Nacional Toxicologia +34 915 620 420

2. HAZARDS IDENTIFICATION

2.1 Classification:

Directive 67/548/EC and Directive 1999/45/EC:

In accordance with Directive 67/548/EC and Directive 1999/45/EC, the product is not classified as dangerous.

CLP Regulation (EC) n° 1272/2008:

The product is not classified as dangerous according to CLP Regulation (EC) n° 1272/2008.

2.2 Label elements:

Directive 67/548/EC and Directive 1999/45/EC:

In accordance with Regulation (EC) n°1907/2006, the mixture is classified as:

Non dangerous

CLP Regulation (EC) n° 1272/2008:

See epigraphs 11 and 12.

2.3 Other

Non-applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical description: Aqueous solution of surfactants

Components::

Conc.	Component	Nº CAS/EC/EINECS	Symbol and Risk phrase
< 5%	Isopropanol	67-63-0/200-661-7	Xi,F; R11,36,67 n° Reach 01-2119457558-25 H225,319,336
< 5%	EDTA	64-02-8	Xn; R20,36 n° Reach 01-2119486767-27 H319,332,290
< 5%	Non-ionic Tensioactives		Xn,; R22,41
< 1%	Isotiazolinones mixture		Xi:36,43

To obtain more information on the risk of the substances consult epigraphs 8, 11, 12 and 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the MSDS of this product.

By inhalation:

This product does not contain substances classified as dangerous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

Remove contaminated clothing and shoes, rinse the skin or shower the person affected if necessary thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor. If the mixture produces burns or freezing do not remove

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clothing as it could worsen the injury. In case of blisters forming on the skin, do not burst them as it could increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the MSDS of the product.

By consumption:

Do not induce vomiting, but if it does happen keep the head up to avoid inhalation. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms and effects, both acute and delayed:

No symptoms or delayed effects.

4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

5. FIREFIGHTING MEASURES

5.1 Extinguishing media:

In case of inflammation as a result of improper manipulation or storage use preferably polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive subproducts are created (CO₂, CO, NO_x,...) that can become highly toxic and, consequently, can present a serious health risk..

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilled product (See epigraph 8). Above all prevent the formation of any vapor-air inflammable mixtures, through either ventilation or the use of an inertizing agent. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

Being a solid product, it can be collected with a shovel. For any concern related to disposal consult epigraph 13..

6.4 Reference to other sections:

See sections 8 and 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation:

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (epigraph 6). Avoid leakages from the container. Maintain order and

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cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions.

Avoid the evaporation of the product as it contains inflammable substances, which could form inflammable vapor/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Avoid projections and pulverization. Consult epigraph 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

In order to minimize the risks resulting from lifting the product's container it is recommended to: have legs apart to achieve a stable posture, keep the object as close to the body as possible, lift the weight gradually and without shaking, and do not turn whilst lifting the weight (it is better to pivot on the feet). Transfer in fixed places that are equipped with the necessary security conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the face and hands (See epigraph 8). Limit manual transfers to containers of small quantities. Do not eat or drink during the process, washing hands afterward with suitable cleaning products

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity..

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage:

Minimum Temp: 0 °C

Maximum Temp: 40 °C

Shelf life: 24 months

B.- General conditions for storage.

Avoid sources of heat, radiation, static electricity and contact with food.

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the work environment:

There are no environmental limits for the substances contained in the mixture

8.2 Exposure controls:

A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic individual protection equipment, with the corresponding "CE marking" in accordance with Directive 89/686/EC. For more information on individual protection equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see epigraph 7.1.

B.- Respiratory protection

It is not necessary to perform specific occupational exposure controls.

C.- Specific protection for the hands

LRP Pictogram	IPE	Labeling	CEN Standard	Remarks
 Mandatory hand protection	Chemical protective gloves		EN 374-1:2003 EN 374-2:2003 EN 374-3:2003 EN 420:2003+A1:2009	Replace the gloves at any sign of deterioration



D.- Ocular and facial protection

LRP Pictogram	IPE	Labeling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against liquid splash		EN 166:2001	Clean daily and disinfect periodically according to the manufacturer's instructions



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E.- Bodily protection

LRP Pictogram	IPE	Labeling	CEN Standard	Remarks
	Work clothing		EN 168:2001	For professional use only.
	Anti-slip work shoes		EN ISO 20347:2004/A1:2007	None

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 Eyewash stations	DIN 12 899 ISO 3864-1:2002

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see epigraph 7.1.D

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product data sheet.

Appearance::

Physical state at 20 °C: Liquid

Appearance:: Opaque

Color: Blue

Odor: Herbal/Citric

Volatility::

Boiling point at atmospheric pressure: 101 °C

Vapor pressure at 20 °C: 2341 Pa

Vapor pressure at 50 °C: 12333 Pa (12 kPa)

Evaporation rate at 20 °C: Non-applicable *

Product description:

Density at 20 °C: 1025 kg/m³

Relative density at 20 °C: 1,025

Dynamic viscosity at 20 °C: Non-applicable *

Kinematic viscosity at 20 °C: Non-applicable *

Concentration: 0,95 - 1,05 g/L (active ingredient)

pH: 5,95 - 6,05 to 100 %

Vapor density at 20 °C: Non-applicable *

Partition coefficient n-octanol/water 20 °C: Non-applicable *

Solubility in water at 20 °C: Non-applicable *

Solubility property: Non-applicable *

Decomposition temperature: Non-applicable *

Flammability::

Flash Point: Non Flammable

Autoignition temperature: 225° C

Lower flammability limit: Non-applicable *

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Upper flammability limit: Non-applicable *

9.2 Other information

Surface tension at 20 °C: Non-applicable *

Refraction index: Non-applicable *

Volatile organic compounds:

With regard to Directive 1999/13/EC, this product has the following characteristics:

V.O.C. (Supply): 3,01 % weight

V.O.C. density at 20 °C: 31 kg/m³ (31 g/L)

Average carbon number: 10

Average molecular weight: 136,66 g/mol

With regard to Directive 2004/42/EC, this product which is ready to use has the following characteristics:

V.O.C. density at 20 °C: 32 kg/m³ (32 g/L)

*Not relevant due to the nature of the product, not providing information property of its dangerousness.

10. STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected if the following technical instructions storage of chemicals. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the conditions no hazardous reactions are expected to produce a pressure or excessive temperatures.

10.4 Conditions to avoid:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Avoid direct exposition	Not applicable

10.5 Incompatible materials:

Acids	Water	Combustive materials	Combustible materials	Others
Not applicable	Not applicable	Avoid direct exposition	Avoid direct exposition	Not applicable

10.6 Hazardous decomposition products:

See epigraph 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the mixture itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A.- Ingestion::

The product is not classified as dangerous for consumption with acute, irreversible or chronic effects, as it does not contain substances classified as dangerous for consumption. For more information see epigraph 3.

B- Inhalation::

The product is not classified as dangerous for inhalation with acute, irreversible or chronic effects, as it does not contain substances classified as dangerous for inhalation. For more information see epigraph 3.

C- Contact with the skin and the eyes:

The product is not classified as dangerous for skin contact with acute, irreversible or chronic effects, however, it contains substances classified as dangerous for skin contact. For more information see epigraph 3.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

The product is not classified as dangerous with carcinogenic, mutagenic or toxic for reproduction effects, as it does not contain substances classified as dangerous for the effects mentioned. For more information see epigraph 3.

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E- Sensitizing effects:

Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT)-time exposure:

Not applicable

G- Specific target organ toxicity (STOT)-repeated exposure:

Not applicable

H- Aspiration hazard:

Not applicable

12. ECOLOGICAL INFORMATION

The experimental information related to the ecotoxicological properties of the mixture itself is not available

12.1 Toxicity:

Not available

12.2 Persistence and biodegradability:

Not available

12.3 Bio-accumulative potential:

Not available

12.4 Mobility in soil:

Not available

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class
07 06 99	Wastes not otherwise specified	Non dangerous

Regulations related to waste management:

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1, parts A and B, of Decision 96/350/EC.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) n°1907/2006 (REACH) the community or state provisions related to waste management are stated.

- Community legislation: Directive 91/689/EC
- Community legislation: Directive 75/442/EC, modified by Decision 96/350/EC

14. TRANSPORT INFORMATION

This product is not regulated for transport

15. REGULATORY INFORMATION

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

Limitations to commercialization and the use of certain dangerous substances and mixtures (Annex XVII, REACH):

Non-applicable

Specific provisions in terms of protecting people or the environment:

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It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Non-applicable

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

16. OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006

Text of R-phrases considered in epigraph 3:

Directive 67/548/EC and Directive 1999/45/EC:

Non-applicable

CLP Regulation (EC) n° 1272/2008:

Non applicable

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Main bibliographical sources:

<http://ecb.jrc.ec.europa.eu/esis>

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

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The information contained in this security data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this security data sheet only refers to this product, which should not be used for needs other than those specified.