



SAFETY DATA SHEET

“According to regulation (EC) no. 1907/2006 (REACH) as amended”

Product: Nanovetor Vitamina A

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1. SECTION 1: COMPANY AND PRODUCT IDENTIFICATION

Product name: Nanovetor Vitamina A (NV208E)

EC no.: Not applicable.

Reach record name: The mixture does not require registration according to Regulation 1907/2006.

CAS number: According to section 3.2.

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

Company name: Nanovetores Tecnologia S.A.

Address: Av. Luiz Boiteux Piazza, 1302 | Sapiens Parque - Inovalab - Florianópolis / SC, Brazil - Zip Code: 88056-000

Site: www.nanovetores.com.br

E-mail: contato@nanovetores.com.br

Emergency phone number

Phone: (0xx48) 3205-6262

Monday to Friday 8am to 5pm (Brazilia time zone)

2. HAZARDS IDENTIFICATION

Classification according to EC regulation 1272/2008 (CLP):

Not classified as hazardous according to regulation.

GHS LABEL ELEMENTS

Hazard Pictograms:

Not applicable.

Signal word: Not applicable.



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Hazard Statements:

Not applicable.

Precautionary statements

P264: Wash thoroughly after handling.

P273: Avoid release to the environment

P280: Wear protective gloves / protective clothing / eye protection / face protection.

P501: Dispose of packaging in accordance with local / regional / national / international legislation.

3. COMPOSITION AND COMPONENTS INFORMATION

Chemical characterization: Mixture

INCI Name	CAS Number	Classification according to regulation (EC) 1272/2008 - CLP	Concentration (%)
PHENOXYETHANOL	122-99-6	N.A.	< 1%

Ingredients described according to the rules, in order to protect the confidentiality.

4.FIRST AID MEASURES

Description of necessary measures, subdivided according to the different routes of exposure:

Inhalation:

Remove from exposure and move to fresh air immediately.

Skin contact:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Do not use solvents or thinners. Get medical aid.

Eye contact:



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Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Ingestion

Do not induce vomiting. Rinse mouth immediately. Get medical aid.

Most important symptoms/effects, acute and delayed.

Irritation eyes, skin, mucous membrane; cough, chest pain; dermatitis; rhinorrhea (discharge of thin nasal mucus)

Indication of immediate medical attention and special treatment needed, if necessary.

Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Extinguishing media: Nonflammable

Suitable extinguishing media:

Use water only

Unsuitable extinguishing media:

Do not use powder. Dust explosion possible if in powder or granular form, mixed with air.

Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases:

Gases: Not applicable

Special protective equipment and precautions for fire-fighters.

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.



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Additional information

Do not allow water used to extinguish fire to enter drains, ground or waterways.

6. MEASURES SPILL OR LEAK

Personal precautions, protective equipment and emergency procedures: In case of spill or leak used all personal protective equipment (PPE) to carry out the procedures for containment and cleaning.

Environmental precautions: In the event of spillage or leakage, the product should be contained without risk through channels or embankments. Use absorptive materials such as sand or other noncombustible material. Do not allow to enter into surface water or drains.

Methods and materials for containment and cleaning: Perform cleaning procedure with water and detergent. Additional control measures are not necessary.

7. HANDLING AND STORAGE

Precautions for safe handling

Advices on safe handling

To prevent and/or minimize exposure of the product and the worker is recommended to use complete and correct PPEs.

Hygiene measures

Do not eat, drink or smoke during the handling of the product. The clothes must be washed before the use. Wash your hand before and after handling.

Conditions for safe storage and incompatibilities: It is recommended to store in high and or low density polyethylene packaging, such as drum, aseptic bag with



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screw nozzles and white tube. It should be kept below 25°C, in a ventilated place, protected from light and heat. The product has no incompatibilities with packaging materials.

Hints on joint storage: Not applicable

Further information on storage conditions: Not applicable

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Control parameters: Use adequate ventilation. When it is necessary, it should be provided local exhaust ventilation.

Appropriate engineering controls:

Promote combined with local exhaust ventilation if there is likely to occur vapors / mists of the product. It is recommended that you make available emergency showers and eyewash station in work area. The engineering control measures are most effective in reducing exposure to product.

Individual protection measures, such as personal protective equipment.

- **Eye/face protection:** Use safety goggles, or face shield to protect the entire face.
- **Skin protection:** Wear gloves and lab coat.
- **Respiratory protection:** Not applicable.
- **Thermal hazards:** Not applicable.

Respiratory protection:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.



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Special precautions:

Wear appropriate protective clothing to prevent skin exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Aspect: Milky liquid.
Color: Cream to yellowish.
Odor: Characteristic.
pH: 5.0 – 7.0
Melting/freezing point: Not available.
Initial boiling point and boiling temperature range: Not available.
Flash Point: Not applicable.
Evaporation rate: Not available.
Inflammability: Not applicable.
Lower Limit/Upper Flammable or explosive: Not applicable.
Vapor pressure: Not available.
Vapor density: Not available.
Relative density: 0.9 – 1,1 g/mL
Dispersibility: Water dispersion of encapsulated active ingredients.
Partition coefficient - n-octanol/water: Not available.
Autoignition temperature: Not applicable.
Decomposition temperature: Not available.
Viscosity: Not available.

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10. STABILITY AND REACTIVITY

Reactivity: Not available.

Chemical stability: Stable under normal conditions of storage and handling.

Possibility of hazardous reactions: Not applicable.

Conditions to avoid: Not available.

Incompatible materials: Not applicable.

Hazardous decomposition products: Not applicable.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

-Oral - LD50: Not available;

-Derm - LD50: Not available;

-Inhalation - LC50: Not available.

Corrosion/irritation of the skin: Not available.

Serious eye damage/eye irritation: Not available.

Respiratory or skin sensitization: Not available.

Germ cell mutagenicity: Not available.

Carcinogenicity: Not available.

Toxicity reproduction: Not available.

Organ toxicity - specific targets - single exposure: Not available.

Organ toxicity - specific targets - repeated exposure: Not available.

Aspiration hazard: Not available.

Genotoxicity: Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity /Acute-Chronic Toxicity:

Acute Fish Toxicity CL₅₀, 96H

OECD 203

Not determined

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Acute Daphnia Toxicity CE ₅₀ , 48H	OECD 202	Not determined
Lemma Toxicity	OECD 221	Not determined
Algae Toxicity	OECD201	Not determined
Marine algae toxicity	OECD 201	Not determined
Marine Fish acute toxicity	OECD 203	Not determined
Water Hazard classes (WGK)	-	Not determined

Persistence and degradability: Not determined

Bioaccumulative potential: Not determined

Mobility in soil: Not determined

Evaluation PBT and vPvB: Not classified as PBT or vPvB.

Other adverse effects.

Not applicable

13. CONSIDERATIONS FOR FINAL DESTINATION

Disposal methods

Specify disposal containers and methods.

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste. Cleaned containers may be recycled.

Discourage sewage disposal

Do not dispose off this product in sewers or in the environment.

Where appropriate, identify any special precautions for incineration or landfill.



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Not applicable

14. TRANSPORT INFORMATION

UN number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class: Not applicable,

Packing group, if applicable: Not applicable

Environmental hazards (Marine pollutant -Yes/No): Not applicable

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):

Not applicable

IATA-Dangerous of Goods Regulation 56th Edition/2015: Not applicable

Special precautions: Not applicable

National and international regulations: This product does not require special precautions because the product is not classified as hazardous for transport (Resolution ANTT - 420/04).

Terrestrial: The transfer of this product should be conducted in suitable carrier in order to avoid exposure to extreme temperatures. It must be kept in protected from light and heat.

15. REGULATORY INFORMATION

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

16. OTHER INFORMATION



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Important information that is not specifically described in the previous sections: Information contained in this MSDS is based on current knowledge of this product and should be brought to the attention of all who may handle the product. It is up to the company user performing the necessary training to their employees in order to ensure the correct and safe use of this product.

List of abbreviations

CMR: Carcinogenic, mutagenic and reprotoxic

LD: Lethal Dose

PBT or vPvB: Bioaccumulative potential

OSHA: Occupational Safety and Health Administration

TLV: Threshold limit value

TWA: Permissible exposure limit

STEL: Short-term exposure limit

VLE: Valeur Limite d'Exposition

INCI: International Nomenclature of Cosmetic Ingredient

CAS: Chemical Abstracts Services

IARC: International Agency Research on Cancer

NTP: National Toxicology Program

ACGIH: American Conference of Governmental Industrial Hygienists

IMDG Code: means the International Maritime Dangerous Goods code, as amended.

ADR: means the European Agreement concerning the International Carriage of Dangerous Goods by Road, as amended.

RID: means the Regulations concerning the International Carriage of Dangerous Goods by Rail, as amended.

AND: means the European Agreement concerning the International Transport of Dangerous Goods by Inland Waterways, as amended.



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MARPOL 73/78: means the International Convention for the Prevention of Pollution from Ships, 1973, as modified.

by the Protocol of 1978 relating thereto, as amended.

IBC Code: means the International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code).

The information contained in this MSDS is only considered for general guidance. Nanovetores Tecnologia S.A. is not responsible for damage or inadequate actions related to the handling, storage, use and disposal, damages repair or any type of compensation.