

Version 1.0

According to regulation EC 1272/2008

## PRONANOSOMES NIO-CAT - PNS-NC

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product Identifiers

Product name PRONANOSOME NIO-CAT (PNS-NC)  
REACH Registration No  
CAS No.  
Unit size

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

Reagent for use in laboratory

#### 1.3 Details of the supplier of the safety data sheet

Company Nanovex Biotechnologies S. L.  
Ed. CEEI  
Parque Tecnológico de Asturias  
Llanera 33428 (Asturias) Spain  
Phone (+34) 985 980 098  
Email info@nanovexbiotech.com

#### 1.4 Emergency telephone number

Emergency phone (+34) 704100087  
Institute of Toxicology (+34) 915620420

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### 2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

Cutaneous irritation (Category 2), H315  
Severe ocular injuries (Categoría 1), H318  
Specific target organ toxicity - repeated exposure (Category 2), Liver,  
Gastrointestinal system, Immune system, H373  
Aspiration hazard (Category 1), H304  
Acute aquatic toxicity (Category 1), H400  
Chronic aquatic toxicity (Category 1), H410  
For the full text of the H-Statements mentioned in this section, see Section 16.

##### Classification according to EU Directives 67/548 / EEC or 1999/45 / EC

Xn, N Harmful, Dangerous for the environment R38, R41, R48 / 22, R65, R50 / 53  
For the full text of the R-phrases mentioned in this Section, see Section 16

#### 2.2 Label elements



**Labeling according to Regulation (EC) 1272/2008**

H304 May be fatal if swallowed and enters airways.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H373 May cause damage to organs (liver, gastrointestinal system, immune system) by prolonged or repeated exposure.  
 H410 Very toxic to aquatic life with long lasting effects.

**Statement of caution**

P273 Avoid release to the environment.  
 P280 Wear safety goggles / face mask.  
 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.  
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Keep clarifying. Immediately call a POISON CENTER or doctor / physician.  
 P331 Do NOT induce vomiting.  
 P501 Dispose of contents / container to an authorized waste disposal plant

**2.3 Other hazards**  
Any

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

This product contains: Octadecylamine

Synonyms: 1-Aminooctadecane Stearylamine

Formula: C18H39N

Molecular weight: 269.51 g / mol

CAS-No.: 124-30-1

EC No. 204-695-3

No. Index: 612-282-00-8

Hazardous ingredients according to Regulation (EC) No. 1272/2008

Component	Classification	Concentration
Octadecylamine CAS-No. 124-30-1 EC No. 204-695-3 No. Index 612-282-00-8	Irrit Skin. 2; Eye Dam. 1; STOT RE 2; Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1; H304, H315, H318, H373, H410	2%

Hazardous ingredient according to Directive 1999/45 / EC

Component	Classification	Concentration
Octadecylamine CAS-No. 124-30-1 EC No. 204-695-3 No. Index 612-282-00-8	I Xn, N, R38-R41-R48 / 22-R50 / 53-R65	2%

According to the applicable regulations it is not necessary to disclose more components.

#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures

###### General recommendations

Get medical attention. Show this safety data sheet to the doctor.

###### If inhaled

If aspirated, move person to fresh air. If breathing has stopped, give artificial respiration. Consult a physician.

###### In case of contact with skin

Wash off with soap and plenty of water. Consult a physician.

###### In case of contact with eyes

Wash eyes thoroughly with water as a precaution.

###### If swallowed

Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are on the label and / or in section 11.

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

No data available.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing measures**

#### **Recommended extinguishing media**

Use water spray, alcohol resistant foam, dry powder or carbon dioxide.

### **5.2. Special hazards arising from the substance or mixture**

Carbon oxides, Nitrogen oxides (NOx)

### **5.3. Advice to firefighters**

If necessary, wear self-contained breathing apparatus for fire fighting.

### **5.4 Other data**

No data available.

## **SECTION 6: Accidental release measures**

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Personal protective equipment, see section 8.

### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let the product enter the sewage system. Discharge into the environment should be avoided.

### **6.3 Methods and material for containment and cleaning up**

Collect and prepare for disposal without causing dust. Clean and shovel. Keep in suitable, closed containers for disposal.

### **6.4 Reference to other sections**

For waste disposal see section 13

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Avoid contact with the eyes and skin. Avoid formation of dust and aerosols. Adequate extraction must be available in places where dust is formed. See precautions in section 2.2.

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

Store in a cool place. Keep the container tightly closed in a dry and well-ventilated place. Carbon dioxide sensitive Handle and store in an inert atmosphere. Sensitive to air. German Storage Class (TRGS 510): Non-combustible solids.

**7.3 Specific end use**

Apart from the uses mentioned in section 1.2 there are no other specific uses

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Components with occupational exposure limits.**

Does not contain substances with occupational exposure limit values.

**8.2 Exposure controls**

**Appropriate technical controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and after working day.

**Personal Protection**

**Protection of eyes / face**

Masks and safety glasses. Wear approved eye protection according to applicable governmental regulations, such as NIOSH (USA) or EN 166 (EU).

**Skin protection**

Handle with gloves. Gloves should be inspected prior to use. Use the correct technique to remove gloves (without touching the outer surface of the glove) to avoid skin contact with this product. Discard contaminated gloves after use, in accordance with applicable laws and good laboratory practice. Wash and dry hands.

The selected protective gloves must comply with the specifications of the EU Directive 89/686 / EEC and the standard EN 374 derived there from.

Sumer Material: No data available

Material splash: No data available

**Body Protection**

Full protective clothing against chemicals The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific place of work.

**Respiratory protection**

Where risk assessment shows that air-purifying respirators are appropriate, wear a full-face respirator type N100 (USA) or type P3 (EN 143) and spare cartridges for engineering controls. If the respirator is the only protection, wear a supplied full face piece respirator. Wear respirators and components tested and approved under appropriate governmental standards such as NIOSH (USA) or CEN (EU)

### **8.3 Environmental Exposure Controls**

Prevent further leakage or spillage if safe to do so. Do not let the product enter the sewage system. Discharge into the environment should be avoided

## **SECTION 9: Physical and chemical properties**

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

1. Appearance Form: solid
2. Odor: no data available
3. Odor threshold: no data available
4. pH no data available
5. Melting point / freezing point: no data available
6. Initial boiling point and boiling range: no data available
7. Flash point: no data available
8. Evaporation rate: no data available
9. Flammability (solid, gas): no data available
10. Upper / lower flammability or explosive limits: no data available
11. Vapor pressure: no data available
12. Vapor density: no data available
13. Relative density: no data available
14. Solubility in water: no data available
15. Partition coefficient: n-octanol / water: no data available
16. Autoignition temperature: no data available
17. Decomposition temperature: no data available
18. Viscosity: no data available
19. Explosive properties: no data available
20. Oxidizing properties no data available

### **9.2 Other information**

No data available

## **SECTION 10: Stability and Reactivity**

### **10.1 Reactivity**

No data available

### **10.2 Chemical stability**

No data available

### **10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

No data available

**10.5 Incompatible materials**

No data available

**10.6 Hazardous decomposition products**

No data available

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

No data available

**Skin corrosion / irritation**

No data available

**Serious eye damage or irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity IARC:** No component of this product, present at levels greater than or equal to 0.1% as a human carcinogen likely, possible or confirmed by the International Carcinogen Research Agency (IARC) is identified.

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Danger of aspiration**

No data available

**Potential health effects**

Inhalation: May be harmful if inhaled. May cause irritation of the respiratory tract.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

**Additional Information RTECS:**

No data available

**SECTION 12: Ecological information**

**12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

This substance / mixture contains no components that are considered to be bioaccumulative and persistent toxic (PBT) or very bioaccumulative and very persistent (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

No data available

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Product / Packaging  
disposal

**SECTION 14: Transport Information**

**14.1 UN number**

ADR / RID: 3077                      IMDG: 3077                      IATA: 3077

**14.2 UN proper shipping name**

ADR / RID: SOLID SUBSTANCE, HAZARDOUS ENVIRONMENT (Contains 2% octadecylamine)  
IMDG: ENVIROMENTALLY HAZARDOUS SUBSTANCE, SOLID (contains 2% octadecylamine)  
IATA: Enviromentally hazardous substance, solid

**14.3 Transport hazard class (es)**

ADR / RID: 9                      IMDG: 9                      IATA: 9

**14.4 Packing group**



ADR / RID: III

IMDG: III

IATA: III

**14.5 DANGER FOR THE ENVIRONMENT**

ADR / RID: Yes

IMDG Marine pollutant: Yes

IATA: Yes

**14.6 Special precautions for user:**

**Other data:**

Any

**SECTION 15: Regulatory information**

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

No data available

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment has not been carried out.

**SECTION 16: Other information**

**Date of creation:** 09/2016

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