



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.09.2023

version: 1

Revision: 26.09.2023

### 1.1 Product identifier:

Trade name: **N-Vanillynonamide**

Article number: 89820

CAS Number:

2444-46-4

EC number:

219-484-1

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

No further relevant information available.

Application of the substance / the preparation: Reference substance

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

Manufacturer/Supplier:

PhytoLab GmbH & Co. KG

Dutendorfer Str. 5-7

D-91487 Vestenbergsgreuth

Tel.: Germany/9163/88-327

Fax: Germany/9163/88-456

Mail: ref-substances@phytolab.de

Further information obtainable from: Material Safety Data Sheet: PLV\_MSDS@phytolab.com

1.4 Emergency telephone number: Germany/9163/88-500

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008:



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

### 2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008:

The substance is classified and labelled according to the CLP regulation.

(Contd. on page 2)



## Safety data sheet

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Trade name: **N-Vanillylnonamide**

Hazard pictograms:

(Contd. of page 1)



GHS05 GHS07 GHS08

Signal word: Danger

Hazard statements:

H315 Causes skin irritation.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

Precautionary statements

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

P285 In case of inadequate ventilation wear respiratory protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards:

Restricted to professional users. The toxicological properties of this compound have not been fully evaluated.

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms: Nonivamide

CAS No. Description

2444-46-4 N-Vanillylnonamide

Identification number(s)

EC number: 219-484-1

Additional information: chemical product

EU

(Contd. on page 3)



## Safety data sheet

according to 1907/2006/EC, Article 31

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version: 1

Revision: 26.09.2023

Trade name: **N-Vanillynonamide**

(Contd. of page 2)

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures:

General information:

Induce vomiting only with medical help.

Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air and to be sure call for a doctor.

After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

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

No further relevant information available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media:

Suitable extinguishing agents:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

#### 5.2 Special hazards arising from the substance or mixture:

No further relevant information available.

#### 5.3 Advice for firefighters:

Protective equipment:

Wear fully protective suit.

Mount respiratory protective device.

### SECTION 6: Accidental release measures

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

Avoid formation of dust.

Wear protective equipment. Keep unprotected persons away.

#### 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

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

Pick up mechanically.

Dispose contaminated material as waste according to section 13.

#### 6.4 Reference to other sections:

See Section 7 for information on safe handling.

(Contd. on page 4)



## Safety data sheet

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Revision: 26.09.2023

Trade name: **N-Vanillynonamide**

(Contd. of page 3)

See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling:

Handling corresponding to laboratory safety guidelines.

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of dust.

Information about fire - and explosion protection: No special measures required.

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

Storage:

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Store only in the original receptacle.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions:

Store in the dark.

Store in cool, dry conditions in well sealed receptacles.

Recommended storage temperature: 2-8 °C

Storage class: 13

7.3 Specific end use(s): No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters:

Ingredients with limit values that require monitoring at the workplace: Not required.

Additional information: The lists valid during the making were used as basis.

#### 8.2 Exposure controls:

Appropriate engineering controls: No further data; see section 7.

Individual protection measures, such as personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Do not eat, drink, smoke or sniff while working.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Store protective clothing separately.

Respiratory protection:

Required in case of dust formation.

(Contd. on page 5)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.09.2023

version: 1

Revision: 26.09.2023

Trade name: **N-Vanillynonamide**

(Contd. of page 4)

Use suitable respiratory protective device in case of insufficient ventilation.

Hand protection:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves:



Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection:



Tightly sealed goggles

Body protection: Protective work clothing

### SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

General Information:

Physical state:

Solid

Colour:

According to Certificate of Analysis

Odour:

No data available.

Odour threshold:

Not determined.

Molecular Weight

Melting point/freezing point:

57 °C

Boiling point or initial boiling point and boiling range:

Undetermined.

Flammability:

Product is not flammable.

Dust explosion class:

Lower and upper explosion limit:

Lower:

Not determined.

Upper:

Not determined.

Flash point:

Not applicable.

(Minimum) Ignition temperature:

Not determined.

(Contd. on page 6)

**Safety data sheet**

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**Trade name: N-Vanillynonamide**

(Contd. of page 5)

Decomposition temperature:	Not determined.
Powder volume resistivity:	
pH:	Not applicable.
Dissociation constant:	
Viscosity:	
Kinematic viscosity:	Not applicable.
Solubility in other solvents:	
Dynamic:	Not applicable.
Solubility:	
water:	practically insoluble
Partition coefficient n-octanol/water (log value):	Not determined.
Vapour pressure:	Not applicable.
Density and/or relative density:	
Density:	Not determined.
Relative density:	Not determined.
Vapour density:	Not applicable.
Particle characteristics:	
See section 3.	
9.2 Other information:	
Appearance:	
Form:	Solid
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Molecular formula	C17H27NO3
Molecular weight	293.41 g/mol
Oxidising properties:	Not determined.
Evaporation rate:	Not applicable.
Information with regard to physical hazard classes:	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void

(Contd. on page 7)

EU



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.09.2023

version: 1

Revision: 26.09.2023

Trade name: **N-Vanillynonamide**

(Contd. of page 6)

Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

### SECTION 10: Stability and reactivity

- 10.1 Reactivity: No further relevant information available.  
10.2 Chemical stability:  
Thermal decomposition / conditions to be avoided:  
Stable under constant-temperature (see 7.)  
10.3 Possibility of hazardous reactions: No data available.  
10.4 Conditions to avoid: No further relevant information available.  
10.5 Incompatible materials: Strong oxidising agents.  
10.6 Hazardous decomposition products: No data available

### SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008  
Acute toxicity: Based on available data, the classification criteria are not met.  
LD/LC50 values relevant for classification:
- 
- Oral LD50 5,110 mg/kg (rat)  
[Roth/Daunderer]  
Dermal LD50 >10,000 mg/kg (rabbit)  
[Roth/Daunderer]  
Skin corrosion/irritation: Causes skin irritation.  
Serious eye damage/irritation: Causes serious eye damage.  
Respiratory or skin sensitisation:  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.  
Germ cell mutagenicity: Based on available data, the classification criteria are not met.  
Carcinogenicity: Based on available data, the classification criteria are not met.  
Reproductive toxicity: Based on available data, the classification criteria are not met.  
STOT-single exposure: May cause respiratory irritation.  
STOT-repeated exposure: Based on available data, the classification criteria are not met.  
Aspiration hazard: Based on available data, the classification criteria are not met.  
Additional toxicological information:  
The product should be handled with the care usual when dealing with chemicals.

(Contd. on page 8)





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Trade name: **N-Vanillynonamide**

(Contd. of page 8)

14.3 Transport hazard class(es):	
ADR, ADN, IMDG, IATA	
Class	Void
14.4 Packing group:	
ADR, IMDG, IATA	Void
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user:	Not applicable.
14.7 Maritime transport in bulk according to	
IMO instruments:	Not applicable.
UN "Model Regulation":	Void

### SECTION 15: Regulatory information

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

Directive 2012/18/EU:

Named dangerous substances - ANNEX I: Substance is not listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II:

Substance is not listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)):

Substance is not listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS: Substance is not listed.

National regulations:

Information about limitation of use:

When using chemicals, legal regulations have to be regarded (chemical law, maternity protection, protection of minors).

Waterhazard class: Water hazard class 2 (Assessment by list): hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

(Contd. on page 10)



## Safety data sheet

according to 1907/2006/EC, Article 31

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Trade name: **N-Vanillynonamide**

(Contd. of page 9)

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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