

# VANA, VANB

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Issue date: 2021-03-11

Revision date: 2021-03-11

Version: 1.0

### SECTION 1: Identification

#### 1.1. Product identifier

Product form	: Substance
Substance name	: VANA, VANB
Chemical name	: Vanillin
CAS-No.	: 121-33-5
Formula	: C8-H8-O3

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

Use of the substance/mixture	: Vanillin CRM, for laboratory use only
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#### 1.3. Details of the supplier of the safety data sheet

National Research Council Canada  
1200 Montreal Road  
Ottawa, K1A 0R6 - Canada  
T 613-993-2359



National Research  
Council Canada

Conseil national de  
recherches Canada

#### 1.4. Emergency telephone number

Emergency number	: CANUTEC 1-613-996-6666
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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS classification

Eye Irritation 2A

#### 2.2. Label elements

##### GHS labelling

Hazard pictograms (GHS)



GHS07

Signal word (GHS)

: Warning

Hazard statements (GHS)

: Causes serious eye irritation.

Precautionary statements (GHS)

: Wash hands, forearms and face thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS)

Not applicable

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Name : VANA, VANB

Name	Product identifier	% (by weight)
Vanillin	(CAS-No.) 121-33-5	100

#### 3.2. Mixtures

Not applicable

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact : If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation persists.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

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

- Symptoms/effects after inhalation : May cause irritation to the respiratory tract.
- Symptoms/effects after skin contact : May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
- Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
- Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>), foam, water spray, powder.
- Unsuitable extinguishing media : Do not use a heavy water stream.

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

No additional information available

- Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon.

#### 5.3. Advice for firefighters

- Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

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### SECTION 6: Accidental release measures

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

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

#### 6.2. Methods and material for containment and cleaning up

For containment : Contain spill, then place in a suitable container. Minimize dust generation. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

#### 6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Avoid generating dust.

Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

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

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated place.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Vanillin (121-33-5)	
ACGIH	Not applicable
OSHA	Not applicable
IDLH	Not applicable
NIOSH	Not applicable

#### 8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.

Hand protection : Wear suitable gloves.

Eye protection : Wear eye/face protection.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls : Avoid release to the environment.

Other information : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

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### SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Appearance	: Crystalline powder
Colour	: Colorless to light yellow
Odour	: Characteristic
Odour threshold	: No data available
pH	: 4.3 [10 g/L at 20 °C]
Melting point	: 81 – 83 °C [Literature data]
Freezing point	: No data available
Boiling point	: 170 – 338 °F at 20 hPa [Literature data]
Flash point	: 159.8 – 160.8 °C [closed cup]
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not flammable
Vapour pressure	: 0.0029 hPa at 25 °C
Relative vapour density at 20 °C	: 5.3 at 25 °C
Relative density	: No data available
Density	: 1.056 g/cm <sup>3</sup> at 20 °C
Solubility	: Water: 9 g/l at 25 °C
Partition coefficient n-octanol/water	: 1.21 at 25 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Heat. Incompatible materials. Protect from moisture.

#### 10.5. Incompatible materials

Strong oxidizers.

#### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

VANA, VANB (121-33-5)	
LD50 oral rat	3925 – 3978 mg/kg (EC Directive 92/69/EEC B.1 Acute Toxicity (Oral))
LD50 dermal rat	> 2000 (≥ 0) mg/kg (OECD Test Guideline 402)

Skin corrosion/irritation : Not classified  
pH: 4.3 [10 g/L at 20 °C]

Serious eye damage/irritation : Causes serious eye irritation  
pH: 4.3 [10 g/L at 20 °C]  
(OECD Test Guideline 405)

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified  
Ames test: Negative

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : May cause skin irritation. Repeated exposure may cause skin dryness or cracking.

Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : Harmful to aquatic life.

VANA, VANB (121-33-5)	
LC50 - Fish [1]	57 mg/L (Exposure time: 96 h - Species: <i>Pimephales promelas</i> [OECD Test Guideline 203])
EC50 - Crustacea [1]	36.6 mg/L (Exposure time: 48 h - Species: <i>Daphnia magna</i> [OECD Test Guideline 202])

#### 12.2. Persistence and degradability

VANA, VANB (121-33-5)	
Persistence and degradability	Not established

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### 12.3. Bioaccumulative potential

VANA, VANB (121-33-5)	
Partition coefficient n-octanol/water	1.21 at 25 °C
Bioaccumulative potential	Not expected to bioaccumulate

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## SECTION 14: Transport information

### Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)

In accordance with DOT/TDG

Not regulated for transport

### Additional information

Other information : No supplementary information available.  
Special transport precautions : Do not handle until all safety precautions have been read and understood.

## SECTION 15: Regulatory information

### 15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

### 15.2 US State regulations

No additional information available

## SECTION 16: Other information

Issue date : 2021-03-11  
Revision date : 2021-03-11  
Other information : None.  
Version # : 1.0  
Prepared by : Nexreg Compliance Inc.

### DISCLAIMER:

*The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.*

*This material is for research and experimental applications only. It is not intended for food, drug, household, agricultural, or cosmetic use. Its use must be supervised by technically qualified individuals with experience in the handling of*

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*potentially hazardous chemicals. Apart from the solvent in this product (if applicable), the hazardous components present in the solution are at such low concentrations that exact determination of degree of hazard is not warranted and would be misleading. We shall not be held liable for any damage resulting from handling or from contact with the above product.*