

# Safety Data Sheet

## Conifera Technical

Revision date: 04/05/2023

Version: 1.0.0

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

#### 1.1. Product identifier

**Trade name:** Conifera Technical  
**Substance name:** Vanillin  
**CAS No:** 121-33-5  
**EC No:** 204-465-2  
**REACH Reg. No.:** 01-2119516040-60  
**Formula:** C<sub>8</sub>H<sub>8</sub>O<sub>3</sub>

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

**Recommended uses:** Technical use  
See enclosed exposure scenarios for further information.

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

##### Supplier

**Company:** Borregaard AS  
**Address:** P.O. Box 162  
**City:** 1701 Sarpsborg  
**Country:** NORWAY  
**E-mail:** sds@borregaard.com  
**Phone:** + 47 69 11 80 00  
**Fax:** + 47 69 11 87 70

#### 1.4. Emergency Telephone Number

Members of the public: 111 (NHS 111 (Scotland: NHS 24)).

### SECTION 2: Hazards identification

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

**CLP-classification:** Eye Irrit. 2;H319  
**Most serious harmful effects:** Causes serious eye irritation.

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### 2.2. Label elements

#### Pictograms



**Signal word:** Warning

#### Contains

**Substance:** Vanillin

**CAS No:** 121-33-5

#### Hazard statements

H319 Causes serious eye irritation.

#### Precautionary statements

P264 Wash hands thoroughly after handling.

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

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313 If eye irritation persists: Get medical advice/attention.

### 2.3. Other hazards

May form explosible dust-air mixture if dispersed.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance	CAS No./ EC No./ REACH Reg. No.	Concentration	Notes	CLP-classification
Vanillin	121-33-5 204-465-2 01-2119516040-60	~ 100 %		Eye Irrit. 2:H319

Please see section 16 for the full text of H- / EUH-phrases.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation:** Seek fresh air, wash out mouth with water and blow nose thoroughly. Seek medical advice in case of persistent discomfort.

**Ingestion:** Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Induce vomiting if victim is conscious. Seek medical advice in case of discomfort.

**Skin contact:** Immediately remove contaminated clothing. Wash the skin thoroughly with water and continue washing for a long time. Wash contaminated clothing before reuse.

**Eye contact:** Open eye wide, remove any contact lenses and flush immediately with water (preferably using eye wash equipment). Seek medical advice immediately. Continue flushing until medical attention is obtained.

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

None known.

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

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No special immediate treatment required.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media:** Extinguish with powder, foam, carbon dioxide or water mist.

**Unsuitable extinguishing media:** Do not use water stream, as it may spread the fire.

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

The product is not directly flammable. Avoid inhalation of vapour and fumes - seek fresh air. Avoid formation of dust.

#### 5.3. Advice for firefighters

If there is a risk of exposure to vapour and flue gases, a self-contained breathing apparatus must be worn.

**Other Information:** If there is a risk of exposure to vapour and flue gases, a self-contained breathing apparatus must be worn.

### SECTION 6: Accidental release measures

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

**For non-emergency personnel:** Provide good ventilation. Wear safety goggles if there is a risk of dust contact with eyes. Take precautionary measures against static discharges. Use spark-free tools and explosion proof equipment.

#### 6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

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

Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers. Rinse with water. Do not sweep - use vacuum cleaner to collect spillage.

#### 6.4. Reference to other sections

See section 13 for instructions on disposal.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Work processes where generation of dust may occur must be performed under effective process ventilation (e.g. local exhaust ventilation). Running water and eye wash equipment must be available. Wash hands before breaks, before using restroom facilities, and at the end of work.

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

Store in a dry, cool, well-ventilated area. Do not expose to heat (e.g. sunlight).

#### 7.3. Specific end use(s)

None.

### SECTION 8: Exposure controls/personal protection

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### 8.1. Control parameters

#### Occupational exposure limit

Substance name	Time period	ppm	mg/m <sup>3</sup>	fiber/cm <sup>3</sup>	Remarks	Comments
Nuisance dust, total	8h	0	10			

#### PNEC

Exposure	Value	Assessment Factor	Extrapolation Method	Note
Vanillin, cas-no 121-33-5				
PNEC soil	19,56 mg/kg soil dw			
PNEC aqua (freshwater)	0,118 mg/l			
PNEC aqua (marine water)	0,0118 mg/l			
PNEC STP (wastewater-treatment facilities)	10,0 mg/l			
PNEC sediment (marine water)	5,822 mg/l			

#### DNEL - general population

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Vanillin, cas-no 121-33-5					
Oral DNEL (acute/short-term exposure - systemic effects)	10 mg/kg/day				

### 8.2. Exposure controls

**Exposure controls:** Work processes where generation of dust may occur must be performed under effective process ventilation (e.g. local exhaust ventilation). Running water and eye wash equipment must be available. Wash hands before breaks, before using restroom facilities, and at the end of work.

**Appropriate engineering controls:** Provide good ventilation. Running water and eye wash equipment must be available.

**Personal protective equipment, eyeface protection:** Wear safety goggles if there is a risk of dust contact with eyes.

**Personal protective equipment, skin protection:** Wear suitable protective clothing.

**Personal protective equipment, hand protection:** No specific hand protection noted, but gloves may still be advisable.

**Personal protective equipment, respiratory protection:** Wear respiratory protective equipment with P2 filter when performing dusty work.

## SECTION 9: Physical and chemical properties

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

Parameter	Value/unit
State	Powder Crystals
Colour	White
Odour	Characteristic
Solubility	Solubility in water: Partly soluble - Soluble in the following: Organic solvents.

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Parameter	Value/unit	Remarks
Odour threshold	No data	
Melting point	81 - 83 °C	
Freezing point	81 - 83 °C	
Initial boiling point and boiling range	284 - 285 °C	
Flammability (solid, gas)		Not flammable.
Flammability limits		Not flammable.
Explosion limits	No data	
Flash Point	153 °C	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
pH (solution for use)	4.30	10 % solution
pH (concentrate)	No data	
Kinematic viscosity	No data	
Viscosity	No data	
Partition coefficient n-octanol/water	1.17 - 1.33	
Vapour pressure	< 0.10 kPa	25°C
Density	1.06 g/cm <sup>3</sup>	
Relative density	No data	
Vapour density	No data	
Relative density (sat. air)	No data	
Particle characteristics	No data	

### 9.2. Other information

Parameter	Value/unit	Remarks
Molecular weight	152,14	
Explosive properties		Non-explosive
Oxidising properties		Non-oxidising.
Log Pow		
pka	7,38	25°C

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No known data.

### 10.2. Chemical stability

Do not expose to heat (e.g. sunlight). The substance is stable when used in accordance with the supplier's directions.

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Strong alkalis/ Strong acids. Oxidisers/

### 10.6. Hazardous decomposition products

Phenol. Carbon monoxide and carbon dioxide/

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### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Acute toxicity - oral

###### Vanillin, cas-no 121-33-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 3925 mg/kg		OECD 423	REACH dossier

Based on existing data, the classification criteria are deemed not to have been met.

##### Acute toxicity - dermal

###### Vanillin, cas-no 121-33-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 2000 mg/kg		OECD 402	REACH dossier

Based on existing data, the classification criteria are deemed not to have been met.

##### Acute toxicity - inhalation:

Based on existing data, the classification criteria are deemed not to have been met.

##### Skin corrosion/irritation

###### Vanillin, cas-no 121-33-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat				Non-irritating	EU Method B.3	REACH dossier

Can be irritating after prolonged skin contact.

##### Serious eye damage/eye irritation

###### Vanillin, cas-no 121-33-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit				Irritating	OECD 405	REACH dossier

Irritating to eyes. Causes a burning sensation and tearing.

##### Respiratory sensitisation or skin sensitisation

###### Vanillin, cas-no 121-33-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Guinea pig				Non-sensitising	EU Method B.6 (Skin Sensitisation)	REACH dossier

Based on existing data, the classification criteria are deemed not to have been met.

##### Germ cell mutagenicity

###### Vanillin, cas-no 121-33-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
				No mutagenic effects observed.	Ames test	REACH dossier

Based on existing data, the classification criteria are deemed not to have been met.

##### Carcinogenic properties:

Based on existing data, the classification criteria are deemed not to have been met.

##### Reproductive toxicity:

Based on existing data, the classification criteria are deemed not to have been met.

##### Single STOT exposure:

Based on existing data, the classification criteria are deemed not to have been met.

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**Repeated STOT exposure:** Based on existing data, the classification criteria are deemed not to have been met.

**Aspiration hazard:** Based on existing data, the classification criteria are deemed not to have been met.

### 11.2. Information on other hazards

**Endocrine disrupting properties:** None known.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Vanillin, cas-no 121-33-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Pimephales promelas		96hLC50	~ 83.7 mg/l		OECD 203	REACH dossier
Crustacea	Daphnia magna		48hEC50	~ 36.79 mg/l		OECD 202	REACH dossier
Algae	Pseudokirchneriella subcapitata		72hEC50	~ 120 mg/l		OECD 201	REACH dossier

### 12.2. Persistence and degradability

#### Vanillin, cas-no 121-33-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
					Readily biodegradable.	ISO 5815 (Water quality - Determination of BOD5)	

Readily biodegradable.

### 12.3. Bioaccumulative potential

No bioaccumulation expected.

### 12.4. Mobility in soil

Miscible with the following: Water.

### 12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

### 12.6. Endocrine disrupting properties

None known.

### 12.7. Other adverse effects

None known.

### Other Information

Based on existing data, the classification criteria are deemed not to have been met.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Do not discharge large quantities of concentrated spills and residue into drains. Collect concentrated spills and major waste in closed, leak-proof containers for disposal at the applicable hazardous waste site with the below specifications.

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### SECTION 14: Transport information

**14.1. UN number or ID number:** Not applicable. **14.4. Packing group:** Not applicable.  
**14.2. UN proper shipping name:** Not applicable. **14.5. Environmental hazards:** Not applicable.  
**14.3. Transport hazard class(es):** Not applicable.

#### 14.6. Special precautions for user

None.

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

**Other Information:** Not dangerous goods according to ADR, RID, IMDG, DOT and IATA.

### SECTION 15: Regulatory information

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

**Special Provisions:** ADR/RID, Regulation (EU) 2020/878, REACH (EC 1907/2006), GHS/CLP (EC NO1272/2008), GHS USA June, 2015.

**Authorisations / limitations:** Chemical safety assessments have been performed for the following substances: Vanillin.

#### 15.2. Chemical Safety Assessment

REACH Reg. No.	Substance name
01-2119516040-60	Vanillin

### SECTION 16: Other information

#### Version history and indication of changes

Version	Revision date	Responsible	Changes
1.0.0	04/05/2023	Borregaard AS	Initial release

**Vendor notes:** Information given in this safety data sheet is in accordance with our information, and to the best of our knowledge, was correct on the last revision date. Information given is intended to present guidelines for safe handling, use, processing, storage, transport, disposal and discharge; it is not intended to be a guarantee or quality specification. It is the responsibility of the recipient of this safety data sheet to ensure that information given here is read and understood by all who use, handle, dispose of or in any way come in contact with the product.

**Classification method:** ADR/RID, Regulation (EU) 2020/878, REACH (EC 1907/2006), GHS/CLP (EC NO1272/2008), GHS USA June, 2015.

#### Hazard statements

H319 Causes serious eye irritation.

**Country:** GB