

## Vanillin 121-33-5 MSDS

Name:	Vanillin Material Safety Data Sheet
Synonym:	Vanilla; Vanillaldehyde; 4-Hydroxy-m-anisaldehyde; 4-Hydroxy-3-methoxy-benzaldehyde; Lioxin; Methyl-protocatechualdehyde; p-Vanil
CAS:	121-33-5

### Section 1 - Chemical Product

MSDS Name: Vanillin Material Safety Data Sheet

Synonym: Vanilla; Vanillaldehyde; 4-Hydroxy-m-anisaldehyde; 4-Hydroxy-3-methoxy-benzaldehyde;  
Lioxin; Methyl-protocatechualdehyde; p-Vanil

### Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
121-33-5	Vanillin	100	204-465-2

Hazard Symbols: None Listed.

Risk Phrases: None Listed.

### Section 3 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Light sensitive.Moisture sensitive.

Potential Health Effects

Eye:

Dust may cause mechanical irritation. Low hazard for normal industrial handling.

Skin:

Dust may cause mechanical irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Low hazard for usual industrial handling.

Ingestion:

May cause irritation of the digestive tract.

Inhalation:

No hazard expected in normal industrial use. Dust is irritating to the respiratory tract.

Chronic:

Not available.



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#### **Section 4 - FIRST AID MEASURES**

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

Skin:

Get medical aid if irritation develops or persists. Wash clothing before reuse. Flush skin with plenty of soap and water.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Never give anything by mouth to an unconscious person. Treat symptomatically and supportively. Get medical aid if irritation or symptoms occur.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician:

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#### **Section 5 - FIRE FIGHTING MEASURES**

General Information:

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

Extinguishing Media:

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Use agent most appropriate to extinguish fire.

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#### **Section 6 - ACCIDENTAL RELEASE MEASURES**

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Provide ventilation.

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#### **Section 7 - HANDLING and STORAGE**

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Store protected from light.

Storage:

Store in a cool, dry place. Store protected from moisture. Store protected from light.

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## Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

### Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 121-33-5: Russia: 1.5 mg/m<sup>3</sup> TWA Personal Protective Equipment Eyes: Wear safety glasses and chemical goggles if splashing is possible.

### Skin:

Wear appropriate protective gloves to prevent skin exposure.

### Clothing:

Wear appropriate protective clothing to prevent skin exposure.

### Respirators:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

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## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Color: very slightly yellow

Odor: vanilla-like

pH: Not available.

Vapor Pressure: 1 mm Hg @ 107 deg C

Viscosity: Not applicable.

Boiling Point: 285 deg C

Freezing/Melting Point: 81-83 deg C

Autoignition Temperature: Not available.

Flash Point: 147 deg C ( 296.60 deg F)

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: Not applicable.

Solubility in water: Slightly soluble in water.

Specific Gravity/Density: 1.05

Molecular Formula: C<sub>8</sub>H<sub>8</sub>O<sub>3</sub>

Molecular Weight: 152.0542

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## Section 10 - STABILITY AND REACTIVITY

### Chemical Stability:

Stable under normal temperatures and pressures.

### Conditions to Avoid:

Incompatible materials, light, moisture.

### Incompatibilities with Other Materials:

Strong oxidizing agents, strong bases, light, air, strong reducing agents, moisture, bromine, perchloric acid, potassium t-butoxide, t-chlorobenzene and sodium hydroxide, formic acid and thallium nitrate.



Hazardous Decomposition Products:

Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Will not occur.

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## Section 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 121-33-5: YW5775000 LD50/LC50:

CAS# 121-33-5: Oral, mouse: LD50 = 3925 mg/kg; Oral, mouse: LD50 = 1480 mg/kg; Oral, rat: LD50 = 1580 mg/kg; Skin, rabbit: LD50 = >5010 mg/kg.

Carcinogenicity:

Vanillin - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

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## Section 12 - ECOLOGICAL INFORMATION

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## Section 13 - DISPOSAL CONSIDERATIONS

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

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## Section 14 - TRANSPORT INFORMATION

IATA

Not regulated as a hazardous material.

IMO

Not regulated as a hazardous material.

RID/ADR

Not regulated as a hazardous material.

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## Section 15 - REGULATORY INFORMATION

European/International Regulations



European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 121-33-5: No information available.

Canada

CAS# 121-33-5 is listed on Canada's DSL List.

CAS# 121-33-5 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 121-33-5 is listed on the TSCA inventory.

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## **SECTION 16 - ADDITIONAL INFORMATION**

N/A