



Section 1. Product and Company Identification

Product Name Vanillin
CAS Number 121-33-5

Parchem - fine & specialty chemicals

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EMERGENCY RESPONSE NUMBER
CHEMTEL

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All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

GHS Classification

Acute toxicity, Oral (Category 5)

Eye irritation (Category 2A)

Acute aquatic toxicity (Category 3)

OSHA Hazards: Irritant

GHS Label Elements

Pictograms: N/A

Signal word: WARNING

Hazard and precautionary statements

Hazard statements

H303 May be harmful if swallowed.

H319 Causes serious eye irritation.

H402 Harmful to aquatic life.

Precautionary statements

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

HMIS Rating

Health: 1

Flammability: 1

Reactivity: 1

NFPA Rating

Health: 1

Flammability: 1

Reactivity: 0



Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

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

Eyes: Causes eye irritation.

Ingestion: May be harmful if swallowed

Section 3. Composition / Information on Ingredients

Common Name	Vanillin
Synonym(s)	4-Hydroxy-3-methoxybenzaldehyde
Formula	C ₈ H ₈ O ₃
CAS Number	121-33-5

Section 4. First Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

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

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5. Firefighting Measures

Conditions of flammability: Not flammable or combustible.

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products: Hazardous decomposition products formed under fire conditions-Carbon oxides.

Section 6. Accidental Release Measures

Personal precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Precautions for safe handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place. Air, light, and moisture sensitive.

Section 8. Exposure Controls / Personal Protection

Components with workplace control parameters: Components CAS-No. Value Control parameters Basis Vanillin 121-33-5 TWA 10 mg/m³ USA. Workplace Environmental Exposure Levels (WEEL)

Personal protective equipment

Respiratory protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9. Physical and Chemical Properties

Appearance: Color white to slight yellow

Melting point: 81°C

Boiling point: 170°C

Flash point (Closed cup): > 200°F

Odor: Vanilla

Section 10. Stability and Reactivity

Chemical stability: Stable under recommended storage conditions.

Materials to avoid: Strong oxidizing agents.

Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section 11. Toxicological Information

Acute toxicity

Oral LD50 - Rat: 3,300 mg/kg

LD50 Dermal - Rabbit: > 5,010 mg/kg

Remarks

Behavioral: Somnolence (general depressed activity).

Behavioral: Food intake (animal).

Gastrointestinal: Peritonitis.

Serious eye damage/eye irritation

Eyes - Rabbit: Irritating to eyes (72 h)

Respiratory or skin sensitization

Maximization Test - guinea pig - Directive 67/548/EEC, Annex V, B.6. - Does not cause skin sensitization.

Carcinogenicity

IARC: No component of this product, present at levels greater than or equal to 0.1%, is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by OSHA.

Potential health effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion: May be harmful if swallowed.

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

Eyes: Causes eye irritation.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12. Ecological Information

Toxicity

Toxicity to fish

Semi-static test LC50 - Pimephales promelas (fathead minnow): 57 mg/l (96 h)

Static test LC50 - Pimephales promelas (fathead minnow): 88 mg/l (96 h)



Flow-through test LC50 - Pimephales promelas (fathead minnow): 53 - 61.3 mg/l (96 h)

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

DOT (US): Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

Section 15. Regulatory Information

OSHA Hazards: Irritant

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Acute Health Hazard.

Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Vanillin (CAS-No. 121-33-5)

Revision Date: 1989-12-01

New Jersey Right To Know Components

Vanillin (CAS-No. 121-33-5)

Revision Date: 1989-12-01

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.



Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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