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**MATERIAL SAFETY DATA SHEET (MSDS)****VANILLIN (FOR SYNTHESIS)****1. Product Identification**

**Synonyms:** 4-Hydroxy-3-methoxybenzaldehyde **CAS No.:** 121-33-5

Product Coad: V0215600100

**Molecular Weight:** 152.15  
**Chemical Formula:** C<sub>8</sub>H<sub>8</sub>O<sub>3</sub>

**2. Composition/Information on Ingredients**

Ingredient	CAS No	Percent	Hazardous
Vanillin	121-33-5	90 - 100%	Yes

**3. Hazards Identification**

**Emergency Overview WARNING! MAY BE HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.**

**Potential Health Effects** Information on the human health effects from exposure to this substance is limited. **Inhalation:** May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath. **Ingestion:** Large oral doses may cause irritation to the gastrointestinal tract. **Skin Contact:** May cause irritation with redness and pain. May be absorbed through the skin with possible systemic effects. **Eye Contact:** May cause irritation, redness and pain.

**4. First Aid Measures**

**Inhalation:** Remove to fresh air. Get medical attention for any breathing difficulty.

**Ingestion:** Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice. **Skin Contact:** Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops. **Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

**5. Fire Fighting Measures**

**Fire:** As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source. **Explosion:** Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. **Fire Extinguishing Media:** Water spray, dry chemical, alcohol foam, or carbon dioxide.

**6. Accidental Release Measures**

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

**7. Handling and Storage**

Keep in a tightly closed light-resistant container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

**8. Exposure Controls/Personal Protection**

**Airborne Exposure Limits:** None established. **Ventilation System:** A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details. **Personal Respirators (NIOSH Approved):** For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. **Skin Protection:** Wear protective gloves and clean body-covering clothing.

**Eye Protection:** Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

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**MATERIAL SAFETY DATA SHEET (MSDS)****VANILLIN (FOR SYNTHESIS)****9. Physical and Chemical Properties**

**Appearance:** White to light yellow crystals.  
**Odor:** Pleasant odor.  
**Solubility:** Soluble in 125 parts water.  
**Specific Gravity:** 1.056  
**Boiling Point:** 285C (545F)  
**Melting Point:** 81 - 83C (178 - 181F)  
**Vapor Density (Air=1):** 5.2  
**Vapor Pressure (mm Hg):** 0.0022 @ 25C (77F)

**10. Stability and Reactivity**

**Stability:** Slowly oxidizes in moist air. Light sensitive.  
**Hazardous Decomposition Products:** Carbon dioxide and carbon monoxide may form when heated to decomposition.  
**Hazardous Polymerization:** Will not occur.  
**Incompatibilities:** Strong oxidizers.  
**Conditions to Avoid:** No information found.

**11. Toxicological Information**

Oral rat LD50: 1580 mg/kg Investigated as a mutagen, reproductive effector.

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
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Vanillin (121-33-5)	No	No	None
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**12. Ecological Information**

**Environmental Fate:** No information found.  
**Environmental Toxicity:** No information found.

**13. Disposal Considerations**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

**14. Transport Information**

Not regulated.

**15. Regulatory Information**

-----\Chemical Inventory Status - Part 1\-----

Ingredient	TSCA	EC	Japan	Australia
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Vanillin (121-33-5)	Yes	Yes	Yes	Yes
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-----\Chemical Inventory Status - Part 2\-----

--Canada--

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## MATERIAL SAFETY DATA SHEET (MSDS)

### VANILLIN (FOR SYNTHESIS)

Ingredient Korea DSL NDSL Phil.

Vanillin (121-33-5) Yes Yes No Yes

-----\Federal, State & International Regulations - Part 1\-----

-SARA 302- -----SARA 313-----

Ingredient RQ TPQ List Chemical Catg.

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

-----\Federal, State & International Regulations - Part 2\-----

-RCRA- -TSCA-

Ingredient CERCLA 261.33 8(d)

Vanillin (121-33-5) No No Yes

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No

Reactivity: No (Pure / Solid)

**Australian Hazchem Code:** None allocated.

**Poison Schedule:** None allocated.

#### WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

#### 16. Other Information

**NFPA Ratings:** Health: 1 Flammability: 1 Reactivity: 0

**Label Hazard Warning:** WARNING! MAY BE HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

**Label Precautions:** Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Avoid breathing dust.

Keep container closed.

Use with adequate ventilation.

**Label First Aid:** If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists. If swallowed, give large amounts of water to drink. Never give anything by mouth to an unconscious person.

**Product Use:** Laboratory Reagent

**MATERIAL SAFETY DATA SHEET (MSDS)**

**VANILLIN (FOR SYNTHESIS)**

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**