



## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION:

**PRODUCT CODE** A0160  
**PRODUCT NAME** VANILLIN  
**SUPPLIER** Shanghai M & U International Trade Co., Ltd.  
Rm 1717, No 598 North NuJiang Road  
200333 Shanghai, China  
+86-21-32515501 32515502  
sales@mu-intel.com

**FOR EMERGENCIES CALL CHEMTREC: 800-424-9300 (24-HOURS)**

### 2. HAZARD IDENTIFICATION:

#### Emergency Overview

#### OSHA Hazards -

Irritant

#### GHS Classification

Acute toxicity, Oral (Category 5)

Eye irritation (Category 2A)

Acute aquatic toxicity (Category 3)

#### GHS Label elements, including precautionary statements

Pictogram none

Signal word

Warning

#### Hazard statement(s)

H303

May be harmful if swallowed.

H319

Causes serious eye irritation.

H402

Harmful to aquatic life.

#### Precautionary statement(s)

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 Classification

Health hazard 1

Flammability 1

Physical hazards 1

#### NFPA Rating

Health hazard 1

Fire 1

Reactivity Hazard 0

#### Potential Health Effects

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

<b>Skin</b>	May be harmful if absorbed through skin.Causes skin irritation
<b>Eyes</b>	Causes eye irritation.
<b>Ingestion</b>	May be harmful if swallowed

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS:

SYNONYM	4-Hydroxy-3-methoxybenzaldehyde
Formula	C8 H8 O3
Molecular Weight	152.12 g/mol
CAS-No	EC-No
121-33-5	204-465-2

### 4. FIRST-AID GUIDE:

#### General advice

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

#### If inhaled

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

#### In case of skin contact

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

#### In case of eye contact

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

#### If swallowed

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

### 5. FIRE-FIGHTING GUIDE:

#### 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 fire-fighters

Wear self contained breathing apparatus for firefighting if necessary.

#### Hazardous combustion products

Hazardous decomposition products formed under fire conditions-Carbon oxides.

### 6. ACCIDENTAL RELEASE GUIDE:

#### 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.

**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.

**8. EXPOSURE AND PERSONAL PROTECTION:**

**Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Basis
Vanillin	121-33-5	TWA	10 mg/m <sup>3</sup>	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.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

**Appearance**

Form                      solid

Color	white to slight yellow
<b>Safety data</b>	
Melting point (°C)	81
Boiling point (°C)	170
Flash point (°F)	Closed cup >200
Odor	vanilla

## 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

## 11. TOXICOLOGICAL INFORMATION:

### **Acute toxicity**

#### **Oral LD50 -**

LD50 Oral - rat - 3,300 mg/kg

**Dermal LD50 -** 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.

**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.

**13. DISPOSAL RECOMMENDATIONS:**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORTATION INFORMATION:**

**DOT (US)**

**Not dangerous goods.**

**IMDG**

**Not dangerous goods.**

**IATA**

**Not dangerous goods.**

**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.	Revision Date
	121-33-5	1989-12-01

**New Jersey Right To Know Components**

Vanillin	CAS-No.	Revision Date
	121-33-5	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.

**16. OTHER INFORMATION:**

The information in this MSDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond M&U's control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the MSDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the MSDS. The user should review these regulations to ensure full compliance.

Material Safety Data Sheet prepared by: **M & U International LLC**