

|              |   |
|--------------|---|
| HEALTH       | 2 |
| FLAMMABILITY | 1 |
| REACTIVITY   | 0 |

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

|                |  |
|----------------|--|
| Product Name   | <b>Vanillin Ex-Ferulic Acid, Natural</b> |
| Product Number | <b>0310700</b>                           |
| CAS-No.        | <b>121-33-5</b>                          |

### 1.2 Product Recommended Use

**Flavorings**

### 1.3 Preparation Information

|           |   |
|-----------|---|
| Company   | Aurochemicals<br>7 Nicoll Street<br>Washingtonville, NY 10992 |
| Telephone | 845-496-6065  |
| Fax       | 845-496-6248  |

### 1.4 Emergency Telephone Number

1-800-535-5053  
International - 1-352-323-3500 collect

## Section 2: HAZARD(s) IDENTIFICATION

### 2.1 Classification of substance or mixture

*GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)*

Acute Toxicity, Oral (Category 4) H305  
Eye irritation (Category 2A), H319  
Acute aquatic toxicity (Category 3), H402  
Chronic aquatic toxicity (Category 3), H412

### 2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement  
Hazard Statement(s)

**Warning**

Precautionary  
Statement(s)

H319 Causes serious eye irritation  
H335 May cause respiratory irritation  
H412 Harmful to aquatic life with long lasting effects  
P264 Wash skin thoroughly after handling  
P273 Avoid release to the environment  
P280 Wear protective gloves/eye protection/face protection  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do  
P337+P313 If eye irritation persists: Get medical advice/attention  
P501 Dispose of contents/container to an approved waste disposal plant

## 2.3 HNOC (Hazards not otherwise classified or not covered by GHS –None)

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 Substances

|                  |   |
|------------------|---|
| Synonyms         | 4-Hydroxy-3-methoxybenzaldehyde<br>Vanillin Natural |
| Formula          | C <sub>8</sub> H <sub>8</sub> O <sub>3</sub>        |
| Molecular Weight | 152.15 g/mol  |
| CAS-No           | 121-33-5  |
| EC-No.           | 204-465-2   |

#### Hazardous Components

| Component | Classification   | Concentration |
|-----------|--|---------------|
| Vanillin  | Eye irritation (2A), H319<br>Acute aquatic toxicity (3), H402<br>Chronic aquatic toxicity (3), H412<br>STOT-SE (2), H335 | -             |

### Section 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

|                         |   |
|-------------------------|---|
| General advice          | Consult physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.   |
| Inhalation              | Provide fresh air; keep at rest and at a comfortable position to breathe. Consult a physician.  |
| Contact with skin:      | Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water for at least 15 minutes and contact a physician. |
| Contact with eyes:      | Rinse thoroughly with plenty of water for at least 15 minutes as a precaution and consult a physician.  |
| Ingestion               | DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water and immediately consult a physician.        |
| Clothing contamination: | Remove contaminated clothing and wash before reuse.   |

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

See section 2.2 and or section 11

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

No data available

### Section 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing Media

|                              |  |
|------------------------------|--|
| Suitable Extinguishing Media | Use water spray, alcohol resistant foam, dry chemical or carbon dioxide. |
|------------------------------|--|

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

Carbon dioxide upon burning and Carbon monoxide may also be released.

#### 5.3 Advice for fire fighters

Wear self contained breathing apparatus for firefighting if necessary. DO NOT use water jet or solid water stream.

#### 5.4 Unusual Fire & Explosion Hazards

**Finely divided material (dust) can become combustible under extreme heat or fire conditions and cause dust explosions.**

### Section 6: ACCIDENTIAL RELEASE MEASURES

#### 6.1 Personal precautions, protective

Use personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors,

- equipment and emergency procedures mist or gas. **Ensure adequate ventilation.** Remove all non personnel from the area to fresh air.
- 6.2 **Environment precautions** Prevent further leakage or spillage if safe to do so. Do not allow to enter drains.
- 6.3 **Methods and materials for containment and clean up** Contain spillage. **Avoid dry sweeping or any other methods that create dust.** Instead use wet sweep method to minimize dust formation and the potential for catastrophic secondary explosion.. Place in a suitable, closed container for disposal.
- 6.4 **Specific end use(s)** Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

## Section 7: HANDLING AND STORAGE

- 7.1 **Precautions for safe handling** Avoid contact with skin and eyes and clothing. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Do not allow dust to accumulate. **Good housekeeping measures are required in area where product is processed and dust is formed.**
- 7.2 **Conditions for Safe storage** Avoid storing with strong alkalis, oxidizers and strong mineral acids. Keep container tightly closed in a cool, dry and well-ventilated place. **Air, light and moisture sensitive.**
- 7.3 **Specific End use(s)** Flavorings

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters Components with workplace control parameters

| Component | CAS-No.  | Value | Control Parameters   | Basis   |
|-----------|----------|-------|----------------------|---|
| Vanillin  | 121-33-5 | TWA   | 10 mg/m <sup>3</sup> | USA. Workplace Environmental Exposure Levels (WEEL) |

### 8.2 Exposure Controls

**Appropriate Engineering Controls** Handle in accordance with good industrial hygiene and safety practices. Wash hands immediately after handling the product; before breaks and at the end of the day. Ensure adequate ventilation and use any engineering controls to limit airborne contaminants below any statutory limits. Use controls to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion proof ventilation equipment. Avoid any unnecessary exposure.

#### Personal protective equipment

**These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. They should not be construed as offering an approval for any specific use scenario.**

- Eye/face protection** Wear appropriate safety glasses with side shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
- Skin protection** Wear chemically resistant Nitrile rubber gloves, 0.11mm, when handling this product. Use proper glove removal techniques (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use. Wash and dry hands.
- Body protection** Impervious clothing protecting against chemicals, should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

|                                   |   |
|-----------------------------------|---|
| 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). |
| Control of environmental exposure | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge to the environment must be avoided.  |

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|   |  |  |
|---|--|--|
| a | Appearance                             | Solid-Crystalline-Powder<br>White-to slightly yellow   |
| b | Odor                                   | Creamy, vanilla like odor  |
| c | Odor Threshold                         | No data available  |
| d | pH                                     | No data available  |
| e | Melting Point /Freezing Point          | Melting Point: 81-84°C   |
| f | Boiling Point                          | 285°C  |
| g | Flash Point                            | >94°C  |
| h | Evaporation Rate                       | No data available  |
| i | Flammability                           | Dust is combustible under heat/fire conditions   |
| j | Upper/lower Flammability Limit         | No data available  |
| k | Vapor pressure                         | 1 hPa at 107°C<br><0.01 hPa at 25°C<br>0.0022 hPa at 25°C                                      |
| l | Vapor density                          | No data available  |
| m | Relative density at 20°C               | No data available  |
| n | Solubility                             | Slightly soluble in water<br>Soluble in organic solvents and oils<br>Freely soluble in ethanol |
| o | Partition coefficient: n-octanol/water | Log Pow: 1.23 at 22°C  |
| p | Auto-ignition Temp.                    | No data available  |
| q | Decomposition Temp.                    | No data available  |
| r | Viscosity                              | No data available  |
| s | Explosive properties                   | No data available  |
| t | Oxidizing properties                   | No data available  |

|     |                          |  |
|-----|--------------------------|--|
| 9.2 | Other Safety Information | Dust or fine particles, present an explosion hazard when suspended in air under certain circumstances. (Combustible Dusts) |
|-----|--------------------------|--|

## Section 10: STABILITY AND REACTIVITY

|      |                                    |  |
|------|------------------------------------|--|
| 10.1 | Reactivity                         | No data available  |
| 10.2 | Chemical Stability                 | Stable under recommended storage conditions  |
| 10.3 | Possibility of Hazardous reactions | Will not occur under normal conditions of storage and use                                  |
| 10.4 | Conditions to avoid                | Avoid all sources of ignition. Do not allow vapor or dust to accumulate in confined spaces |
| 10.5 | Incompatible materials             | Strong oxidizing agents, strong acids, ammonia and strong alkalis                          |
| 10.6 | Hazardous decomposition products   | Will release carbon oxide and smoke upon burning and may release carbon monoxide           |
| 10.7 | Further Information                | No data available  |

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute Toxicity

LD50-Oral –Rat

3,300 mg/kg (OECD Test Guideline 401)

LC50-Inhalation

No data available

LD50-Dermal –Rabbit

>5,010 mg/kg

**Remarks:** Behavioral: Somnolence (general depressed activity), Food intake (animal).

Gastrointestinal: Peritonitis

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

Rabbit: Irritating to eyes – 72h

Respiratory or skin sensitization

Guinea Pig: Maximisation Test

Does not cause skin sensitisation (Directive 67/548/EEC, Annex V, B.6)

Germ Cell mutagenicity

No data available

#### Carcinogenicity

IARC No component of this product, present 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.

Reproductive toxicity

No data available

Specific target organ toxicity-single exposure (GHS)

Irritating to Respiratory System

Specific target organ toxicity-repeated exposures (GHS)

No data available

Aspiration Hazards

Irritating to Respiratory System

Signs and Symptoms of Exposure

If Inhaled: May cause Central Nervous system depression, dizziness and respiratory irritation, coughing, nausea, vomiting, headache, drowsiness/fatigue, vertigo or unconsciousness.

If ingested: May cause Central Nervous System Depression, mouth, throat, stomach irritation. *Though no specific data is available, chronic ingestion of excessive quantities may cause liver damage, cancer of the digestive tract and liver and reproductive effects, including fetal alcohol syndrome. These effects are NOT likely to occur under occupational exposure conditions, and intended use.*

Skin Contact: Irritating to skin.

Eye Contact: May cause serious eye irritation which may include pain, irritation, watering or redness

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

Synergistic effect No data available

RTECS: YW5775000

## Section 12: ECOLOGICAL INFORMATION

|  |   |
|--|---|
| <b>12.1 Toxicity</b>                           | To Fish:<br>LC50: Semi-Static Test: Pimephales promelas (fathead minnow) 57mg/l 96h<br>LC50: Static Test: Pimephales promelas (fathead minnow) 88 mg/l 96h<br>LC50: Flow Through Test: Pimephales promelas (fathead minnow) 53-61.3 mg/l 96 h |
| <b>12.2 Persistence and degradability</b>      | No data available   |
| <b>12.3 Bioaccumulative potential</b>          | No data available   |
| <b>12.4 Mobility in soil</b>                   | No data available   |
| <b>12.5 Results of PBT and vPvB assessment</b> | PBT/vPvB assessment not available as chemical safety assessment not required / not conducted  |
| <b>12.6 Other adverse effects</b>              | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. <b>Harmful to aquatic life</b>  |

## Section 13: DISPOSAL CONSIDERATIONS

|                              |                                |
|------------------------------|--------------------------------|
| <b>13.1 Disposal methods</b> |                                |
| Product:                     | According to local regulations |
| Packaging:                   | According to local regulations |

## Section 14: TRANSPORT INFORMATION

|                 |                     |
|-----------------|---------------------|
| <b>DOT (US)</b> | Not dangerous goods |
| <b>IMDG</b>     | Not dangerous goods |
| <b>IATA</b>     | Not dangerous goods |

## Section 15: REGULATORY INFORMATION

|  |   |               |                      |
|--|---|---------------|----------------------|
| SARA 302 Components                    | No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302  |               |                      |
| SARA 313 Components                    | 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# 121-33-5 | Rev. Date: 12/1/1989 |
| New Jersey Right to Know components    | Vanillin  | CAS# 121-33-5 | Rev. Date: 12/1/1989 |
| 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****HMIS Rating**

Health hazard 2  
 Chronic Health Hazard  
 Flammability 1  
 Physical Hazard 0

**Further Information**

Aurochemicals 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. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

| <b>Issued by:</b>             | <b>Contact Person:</b> |
|-------------------------------|------------------------|
| Aurochemicals                 | Deo N. Persaud         |
| 7 Nicoll Street               | 8/22/2022              |
| Washingtonville, NY 10992 USA |                        |