

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	Vanillin, Natural
Product Number	0310700
CAS-No.	121-33-5

1.2 Product Recommended Use

Flavorings

1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street 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)

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



Warning

Signal Statement

Hazard Statement(s)

Precautionary Statement(s)

H319	Causes serious eye 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
Formula	C ₈ H ₈ O ₃
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 Acute aquatic toxicity (3), H402 Chronic aquatic toxicity (3), H412	-

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 and contact a physician.
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 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. 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 oxides

5.3 Advice for fire fighters

Wear self contained breathing apparatus for firefighting if necessary.

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: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

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

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** 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 ³	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.

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 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: 81-83°C
f	Boiling Point	285°C
g	Flash Point	153°C closed cup
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 <0.01 hPa at 25°C 0.0022 hPa at 25°C
l	Vapor density	No data available
m	Relative density at 20°C	1.056
n	Solubility	Slightly soluble in water Soluble in organic solvents and oils 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	No data available
10.4	Conditions to avoid	No data available
10.5	Incompatible materials	Strong oxidizing agents
10.6	Hazardous decomposition products	No data available
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

Skin corrosion/irritation	Remarks: Behavioral: Somnolence (general depressed activity), Food intake (animal). Gastrointestinal: Peritonitis
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	Rabbit: Irritating to eyes – 72h Guinea Pig: Maximisation Test
Germ Cell mutagenicity	Does not cause skin sensitisation (Directive 67/548/EEC, Annex V, B.6) 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)	No data available
Specific target organ toxicity-repeated exposures (GHS)	No data available
Aspiration Hazards	No data available
Signs and Symptoms of Exposure	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

12.1 Toxicity	To Fish: LC50: Semi-Static Test: Pimephales promelas (fathead minnow) 57 mg/l 96h LC50: Static Test: Pimephales promelas (fathead minnow) 88 mg/l 96h LC50: Flow Through Test: Pimephales promelas (fathead minnow) 53-61.3 mg/l 96 h
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	No data available
12.5 Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required / not conducted
12.6 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

13.1 Disposal methods

Product: According to local regulations
Packaging: According to local regulations

Section 14: TRANSPORT INFORMATION

DOT (US) Not dangerous goods
IMDG Not dangerous goods
IATA 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.

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