

HEALTH 2 FLAMMABILITY 3 REACTIVITY 0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.	.1	Product	identifiers
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Product Name Valeraldehyde (Pentanal), Natural

Product Number 0309800 CAS-No. 110-62-3

1.2 Product Recommended Use Flavorings

1.3 Preparation Information

Company Aurochemicals

7 Nicoll Street

Washingtonville, NY 10992 - USA

 Telephone
 845-496-6065

 Fax
 845-496-6248

 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)

Flammable Liquids (Category 2)
Serious eye damage (Category 1)
Skin irritation (Category 2A)
Acute aquatic toxicity (Category 3)
Chronic aquatic toxicity (Category 3)

2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement Hazard Statement(s)

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H225 Highly flammable liquid and vapor
H313 May be harmful in contact with skin.

H315 Causes skin irritation.H318 Causes serious eye damageH402 Harmful to aquatic life.

H412 harmful to aquatic life with long lasting effects

Precautionary Statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces - No Smoking

P233 Keep container tightly closed

P240 Ground/bond container and receiving equipment

P241 Use explosion proof electrical. Ventilating/lighting/equipment

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P242 Use only non sparking tools



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P264 Wash skin thoroughly after handling P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin

with water/shower

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/ attention P337+P313 If eye irritation occurs: Get medical advice/attention

P370+P378 In case of fire: use dry sand, dry chemical or alcohol resistant foam for extinction.

P403+P25 Store in a well ventilated place. Keep cool

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

Hazardous Components

Component	Classification	Concentration	
Valeraldehyde	Flammable Liquids (2) H225	<=100%	
	Eye irritant (2A), H318		
	Acute Aquatic Toxicity (2) 402		
	Chronic Aquatic Toxicity (2)412		

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Advice Consult a 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. Consult a physician

Contact with eyes: Rinse thoroughly with plenty of water for at least 15 as a precaution. Consult a

physician.

Ingestion DO NOT induce vomiting. Never give anything by mouth to an unconscious person.

Rinse mouth with water. Consult a physician.

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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

5.3 Advice for fire fighters Wear self contained breathing apparatus for firefighting if necessary. Emits toxic fumes

under fire conditions

Carbon oxides

5.4 Further information Use water spray to cool unopened containers.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protectiveUse personal protective equipment. Avoid breathing vapors. Mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulated accumulate ventilation.

adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. **Vapors can accumulate in low areas**. Evacuate

personnel to safe areas.

6.2 Environment precautions Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or

sewage system.

6.3 Methods and materials for containment

and clean up

Soak up with absorbent material. Sweep up with broom and shovel. 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. Avoid inhalation of vapor or mist. Keep away from

sources of ignition-No Smoking. Use explosion proof equipment. Take measures to

prevent the buildup of electrostatic charge.

7.2 **Conditions for Safe storage** Keep container tightly closed in a dry and well-ventilated place. Containers which are

opened must be carefully resealed and kept upright to prevent leakage. Handle and

Store under inert gas Air and light sensitive

7.3 **Specific End use(s)** Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters: Contains no substances with workplace control parameters.

8.2 Exposure Controls

Appropriate Engineering Controls Handle in accordance with good industrial hygiene and safety practices.

Mechanical exhaust required, Safety Shower and Eye Bath

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 tightly fitting safety goggles. NIOSH tested and approved.

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Safety Data Sheet



Skin protection Wear chemically resistant, Butyl rubber gloves. 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, made of flame retardant antistatic

material 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 Where risk assessment shows air-purifying respirators are appropriate use a full face

respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a back up to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or

CN (EU).

Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a Appearance Liquid, Clear

Color: colorless to pale yellow

b Odor Unpleasant
c Odor Threshold No data available
d pH No data available

Melting Point /Freezing Point Melting Point: -92°C Boiling Point 103°C - lit

f 13°C closed cup Flash Point h **Evaporation Rate** No data available Flammability (Solid, Gas) No data available Upper/lower Flammability or **UEL: 6.8 Vol%** explosive Limit LEL: 1.7 Vol% Vapor pressure 40 hPa at 20°C Vapor density 2.97 (Air = 1.0)

m Relative density at 25°C 0.806

n Solubility Slightly soluble in water o Partition coefficient: n-octanol/water No data available

p Auto-ignition Temp. 205 °C

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 No data available

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity No data available

10.2 Chemical Stability
 10.3 Possibility of Hazardous reactions
 Stable under recommended storage conditions
 Vapours may form explosive mixture with air.

10.4 Conditions to avoid Heat, Flames and sparks. Extremes of temperature and direct sunlight

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10.5 Incompatible materials Oxidizing agents, Strong bases, Strong reducing agents



No data available 10.6 Hazardous decomposition products 10.7 **Further Information** No data available

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

LD50-Oral-Rat 6,400 mg/kg

Remarks: Behavioral: Somnolence (general depressed activity)

LC50-Inhalation-Rat 42,700 mg/m3 4h

Remarks: Behavioral: Altered sleep time (including change in righting reflex)

Gastrointestinal: Changes in structure or function of salivary glands.

LD50-Dermal-Rabbit 4.050 ma/ka

Remarks: Liver: other changes, prolonged skin contact may cause skin irritation and/or

dermatitis

Skin corrosion/irritation

Serious eye damage/eye irritation

Respiratory or skin sensitization Germ Cell mutagenicity

Rabbit - Mild skin irritation - 24 h Rabbit- Moderate eye irritation – 24 h

No data available 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.

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

Teratogenicity

Specific target organ toxicity-single

exposure (GHS)

Specific target organ toxicity-repeated

exposures (GHS)

Aspiration Hazards

No data available No data available

No data available

No data available

No data available

Signs and Symptoms of Exposure Headache, Nausea

To the best of our knowledge, the chemical, physical, and toxicological properties have

not been thoroughly investigated

Synergistic effect No data available RTECS: ES3450000

Section 12: **ECOLOGICAL INFORMATION**

12.1 **Toxicity**

LC50 – Pimephales promelas (fathead minnow) – 12.4 mg/l 96 h

Persistence and degradability No data available 12.2

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12.3 Bioaccumulative potential Does not bioaccumulate12.4 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. Toxic 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) UN-Number: 2058 Class: 3 Packing Group: II

Proper shipping name: Aldehydes n.o.s.

Marine Pollutant: No Poison Inhalation Hazard: No

IMDG UN-Number: 2058 Class: 3 Packing Group: II EMS-No. F-E, S-D

Proper shipping name: ALDEHYDES N.O.S. (Isovaleraldehyde)

Marine Pollutant: No

IATA UN-Number: 2058 Class: 3 Packing Group: II

Proper shipping name: Aldehydes n.o.s. (Isovaleraldehyde)

Section 15: REGULATORY INFORMATION

Reach No. A registration number is not available for this substance as its uses are exempted from

registration, the annual tonnage nod not require a registration or the registration is

envisaged for a later registration deadline.

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 Valeraldehyde CAS# 110-62-3 Rev. Date: 4/01/1994

components

Pennsylvania Right to Know components Valeraldehyde CAS# 110-62-3 Rev. Date: 4/01/1994

New Jersey Right to Know components Valeraldehyde CAS# 110-62-3 Rev. Date: 4/01/1994

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.

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Section 16: OTHER INFORMATION

HMIS Rating

Health hazard 2 Chronic Health Hazard Flammability 4 Reactive 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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