# **Safety Data Sheet**



HEALTH 2 FLAMMABILITY 1 REACTIVITY 0

#### Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name Levulinic Acid, Natural

Product Number **0262700** CAS-No. 123-76-2

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)

Acute Toxicity (Category 4), H302 Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319

Specific target organ toxicity-single exposure (Category 3), Respiratory system, H335

2.2 GHS Label Elements, Including precautionary statements

Pictogram

Signal Statement

Warning

Hazard Statement(s) H303 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation H335 May cause respiratory irritation

Precautionary P261 Avoid breathing dust/fume/gas/mist/vapor/spray

Statement(s) P264 Wash skin thoroughly after handling

P270 Do not eat, drink, or smoke when using this product P271 Use only outdoors or in a well-ventilated area

P280 Wear protective gloves/eye protection/face protection

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

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P302+P352 IF ON SKIN: Wash with plenty of soap and water

P204+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

present and easy to do. Continue rinsing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth

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

P337+P313 If eye irritation persists: Get medical advice/attention

P362 Take off contaminated clothing and wash before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container to an approved waste disposal plant

### HNOC (Hazards not otherwise classified or not covered by GHS -None

#### Section 3: **COMPOSITION / INFORMATION ON INGREDIENTS**

3.1 **Substances** 

> Synonyms 4-Oxovaleric acid

4-Oxopentanoic acid

C<sub>5</sub>H<sub>8</sub>O<sub>3</sub> Formula Molecular Weight 116.12 g/mol CAS-No 123-76-2 204-649-2 EC-No.

**Hazardous Components** 

Classification Component Concentration Acute Toxicity (Category 4), H302 4-Oxovaleric acid Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Specific target organ toxicity-single exposure (Category 3), Respiratory system, 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

Contact with skin: Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and

warm water and contact a physician.

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

physician.

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

Rinse mouth with water. Consult a physician.

Remove contaminated clothing and wash before reuse. Clothing contamination:

4.2 Most important symptoms and effects

both acute and delayed

See section 2.2 and or section 11

Indication of any immediate medical attention and special treatment needed No data available

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#### 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 Carbon oxides substance or mixture

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

under fire conditions

**5.4 Further information** Use water spray to cool unopened containers.

#### Section 6: ACCIDENTIAL RELEASE MEASURES

6.1 Personal precautions, protective equipment. Avoid dust formation. Avoid breathing vapors, mist equipment and emergency procedures or gas. Ensure adequate ventilation. Evacuate personnel to safe area. Avoid breathing

dust.

**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

Contain spillage. 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 formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

Normal measures for preventive fire protection.

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

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 occupational exposure limit values.

8.2 Exposure Controls

Appropriate Engineering Controls Avoid contact with skin, eyes and clothing.

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

dav.

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).

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Skin protection Wear chemically resistant, rubber gloves, 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 Do not let product enter drains.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

a Appearance Pale to brown liquid – may congeal

Odor Whiskey

c Odor Threshold No data available
d pH No data available
e Melting Point /Freezing Point Melting Point 30-33°C

f Boiling Point 245°C

Flash Point 110°C closed cup g **Evaporation Rate** No data available Flammability (Solid, Gas) No data available Upper/lower Flammability Limit No data available Vapor pressure 1 hPa at 102°C k Vapor density No data available Relative density at 25°C 1.136-1.143

n Solubility 1mL is soluble in 1mL 95% alcohol. Soluble in water and ether

Partition coefficient: n-octanol/water No data available 0 Auto-ignition Temp. No data available р Decomposition Temp, No data available q No data available Viscosity Explosive properties No data available s 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 Stable under recommended storage conditions

10.3 Possibility of Hazardous reactions10.4 Conditions to avoidNo data availableNo data available

**10.5** Incompatible materials Bases, oxidizing agents, reducing agents

10.6 Hazardous decomposition products10.7 Further InformationNo data availableNo data available

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### Section 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

**Acute Toxicity** 

LD50-Oral -Rat 1,850 mg/kg LC50-Inhalation No data available LD50-Dermal –Rabbit >5,000 mg/kg

Skin corrosion/irritation Rabbit: Skin irritation 24 hr

Serious eye damage/eye irritation Eye irritation
Respiratory or skin sensitization No data available
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.

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)

Specific target organ toxicity-repeated

exposures (GHS)

Aspiration Hazards No data available

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

Inhalation – May cause respiratory irritation

not been thoroughly investigated

No data available

Synergistic effect No data available RTECS: OI1575000

### Section 12: ECOLOGICAL INFORMATION

12.1ToxicityNo data available12.2Persistence and degradabilityNo data available12.3Bioaccumulative potentialNo data available12.4Mobility in soilNo 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 No data available

### Section 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods

Product: According to local regulations

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Packaging According to local regulations

#### Section 14: TRANSPORT INFORMATION

DOT (US)

IMDG

Not dangerous goods

Not dangerous goods

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

Pennsylvania Right to Know components

components

No components are subject to the Massachusetts Right to Know Act

4-Oxovaleric acid CAS# 123-6-2 Rev. Date:

New Jersey Right to Know components 4-Oxovaleric acid CAS# 123-6-2 Rev. Date:

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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