

|              |   |
|--------------|---|
| HEALTH       | 2 |
| FLAMMABILITY | 3 |
| REACTIVITY   | 0 |

**Section 1: IDENTIFICATION**

Product Name: **Allyl Butyrate, Natural**  
 Product Number: **0202100**  
 CAS No.: **2051-78-7**  
 Recommended Use: **Flavorings**

Manufacturer: **Aurochemicals**  
**7 Nicoll Street**  
**Washingtonville, NY 10992-USA**  
**845-496-6065**  
**845-496-6248 Fax**

Emergency Telephone No.: **1-800-535-5053**  
**(International 1-352-323-3500 collect)**

**Section 2: HAZARD(s) IDENTIFICATION**

Classification of the substance or mixture **Flammable Liquid, Toxic**

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) **Flammable liquids (Category 3)  
 Acute toxicity, Oral (Category 3)  
 Acute toxicity, Dermal (Category 3)  
 Skin irritation (Category 2)  
 Eye irritation (Category 2A)  
 Specific target organ toxicity - single exposure (Category 3), Respiratory system**

Pictogram or written description

Signal Word: **Danger**

Hazard Statement: **H226 Flammable liquid and vapor**  
**H301+H311 Toxic if swallowed or in contact with skin.**  
**H315 Causes skin irritation**  
**H319 Causes serious eye irritation**  
**H335 May cause respiratory irritation**

Precautionary Statement **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.**  
**P243 Take precautionary measures against static discharge.**  
**P261 Avoid breathing dust/fume/gas/mist/vapors/spray**

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| 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/ protective clothing/ eye protection/ face protection.  |
| P301+P310          | IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.   |
| P303+P361<br>+P353 | IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing.<br>Rinse skin with water/ shower.                  |
| P304+P340          | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.                                 |
| P305+P351<br>+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.  |
| P322               | Specific measures (see supplemental first aid instructions on this label).   |
| P330               | Rinse mouth.   |
| P332+P313          | If skin irritation occurs: Get medical advice/ attention.  |
| P337+P313          | If eye irritation persists: Get medical advice/ attention.   |
| P361               | Remove/Take off immediately all contaminated clothing.   |
| P370+P378          | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  |
| P403+P235          | Store in a well-ventilated place. Keep cool.   |
| P501               | Dispose of contents/ container to an approved waste disposal plant.  |

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| HMIS Classification | Health Hazard    | 2 |
|                     | Flammability     | 3 |
|                     | Physical Hazards | 1 |

|                          |            |  |
|--------------------------|------------|--|
| Potential Health Effects | Inhalation | May be harmful if inhaled. Causes respiratory tract irritation |
|                          | Skin       | Toxic if absorbed through skin. Causes skin irritation.        |
|                          | Eyes       | Causes eye irritation  |
|                          | Ingestion  | Toxic if swallowed.  |

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

#### Substances:

|                   |   |
|-------------------|---|
| Chemical Name     | Allyl Butyrate                                |
| Synonyms:         | Prop-2-enyl butanoate                         |
| CAS #             | 2051-78-7                                     |
| EC-No             | 218-129-8                                     |
| Molecular Weight  | 128.17 g/mol                                  |
| Molecular Formula | C <sub>7</sub> H <sub>12</sub> O <sub>2</sub> |

### Section 4: FIRST AID MEASURES

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| General Advise:    | Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. |
| Contact with eyes: | Rinse thoroughly with plenty of water for at least 15 minutes and seek medical advice.                    |
| Contact with skin: | Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and                     |

warm water. Consult a physician.

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| Inhalation:             | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.  |
| Ingestion:              | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water, seek medical advice, show this container or label to attending physician. |
| Clothing contamination: | Wash contaminated clothing before re-use.  |

## Section 5: FIREFIGHTING MEASURES

|                                  |  |
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| Suitable Extinguishing Media     | For small (incipient) fires, use media such as alcohol foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water. |
| Special Firefighting Procedures: | Do not stay in danger zone without self contained breathing apparatus. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.   |
| Other Information                | Hazardous decomposition products formed under fire conditions – Carbon oxides. Use water spray to cool unopened containers.  |

## Section 6: ACCIDENTAL RELEASE MEASURES

|                                       |   |
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| Person-related precautionary measures | Evacuate personnel to safe areas. Avoid breathing vapors, mist, or gas. Remove all sources of ignition. Ensure supply of fresh air in enclosed rooms, Avoid breathing dust. Wear respirator, safety glasses, and chemical resistant gloves. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. |
| Environmental-protected measures      | Do not allow to enter drains or sewage system.  |
| Procedures for cleaning / absorption  | Pick up and arrange disposal without creating dust. Sweep up and shovel and place in container for disposal according to local regulations.   |
| Ventilate area                        | After mop up, wash area and ventilate area well.  |

## Section 7: HANDLING AND STORAGE

|                               |  |
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| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition-no smoking. Take measures to prevent the buildup of electrostatic charge.  |
| Conditions for safe storage   | Store in cool place. 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. |

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

|                                |  |
|--------------------------------|--|
| Exposure Limits:               | Contains no substances with occupational exposure limit values.  |
| Personal Protective Equipment: | <b>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.</b>                             |
| Body Protection:               | Impervious, flame retardant antistatic protective clothing 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 deems respirators appropriate the respirator should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. Use respirators and components tested and approved under appropriate government standards such as NIOSH. |
| Eye Protection:                | Wear appropriate eye and face protection – Face Shield   |
| Hand Protection:               | Wear chemically resistant Nitrile rubber gloves  |
| Industrial Hygiene:            | Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before reuse. Wash hands after working with product  |

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

|                               |   |
|-------------------------------|---|
| Form:                         | Liquid  |
| Color:                        | Colorless   |
| Odor:                         | Fruity, peach-like                                  |
| Boiling Point:                | 155-156°C   |
| Flashpoint:                   | 113°C   |
| Melting Point/Freezing Point: | No data available                                   |
| Ignition temperature          | No data available                                   |
| Lower Explosion Limit         | No data available                                   |
| Upper Explosion Limit         | No data available                                   |
| Vapor Pressure:               | No data available                                   |
| Specific Gravity @ 25°C:      | 1.067   |
| Solubility                    | Soluble in most organic solvent; insoluble in water |

## Section 10: STABILITY AND REACTIVITY

|                                    |  |
|------------------------------------|--|
| Chemical stability                 | Stable under recommended storage conditions                                  |
| Possibility of Hazardous reactions | Vapors may form explosive mixture with air                                   |
| Conditions to avoid                | Heat, flames, sparks   |
| Materials to avoid                 | Strong oxidizing agent, Strong Bases   |
| Hazardous decomposition products   | Hazardous decomposition products formed under fire conditions-Carbon oxides. |

## Section 11: TOXICOLOGICAL INFORMATION

|                  |           |
|------------------|-----------|
| LD50, Oral - Rat | 250 mg/kg |
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|-------------------------------------|-------------------|
| LC50 Inhalation                     | No data available |
| LD50 Dermal - Rabbit                | 530mg/kg          |
| Further toxicological information   | No data available |
| Skin corrosion / irritation         | Skin - Human      |
| Serious eye damage / eye irritation | No data available |
| Respiratory or skin sensitization   | No data available |
| Germ cell mutagenicity              | No data available |

## 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 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 |
| Teratogenicity        | No data available |

|  |  |
|--|--|
| Specific target organ toxicity-Single Exposure (GHS) | Inhalation: May cause respiratory irritation |
|--|--|

|  |                   |
|--|-------------------|
| Specific target organ toxicity-Repeated Exposure (GHS) | No data available |
|--|-------------------|

|                          |                   |
|--------------------------|-------------------|
| Aspiration hazard        | No data available |
| 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 |
| Eye        | 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. |
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|                     |                   |
|---------------------|-------------------|
| Synergistic effects | No data available |
|---------------------|-------------------|

|       |           |
|-------|-----------|
| RTECS | ES5775000 |
|-------|-----------|

## Section 12: ECOLOGICAL INFORMATION

|                               |                   |
|-------------------------------|-------------------|
| Toxicity                      | No data available |
| Persistence and degradability | No data available |
| Bioaccumulative potential     | No data available |
| Mobility in soil              | No data available |

PBT and vPvB assessment

No data available

## Section 13: DISPOSAL CONSIDERATIONS

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

## Section 14: TRANSPORT INFORMATION

**DOT (US)**  
Proper shipping name: UN number: 1992 Class 3 (6.1) Packing Group III  
Marine pollutant: Flammable liquids, toxic, n.o.s. (Allyl butyrate)  
Poison inhalation hazard: No

**IMDG-Classification**  
Proper shipping name: UN number: 1992 Class 3 (6.1) Packing Group III EMS: F-E, S-D  
Marine pollutant: Flammable liquids, toxic, n.o.s. (Allyl butyrate)  
No

**IATA-Classification**  
Proper shipping name: UN number: 1992 Class 3 Packing Group III  
Flammable liquids, toxic, n.o.s. (Allyl butyrate)

## Section 15: REGULATORY INFORMATION

OSHA Hazards: Flammable liquid, Irritant

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: Fire Hazard, Acute Health Hazard

Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.  
Pennsylvania Right to Know Components: Allyl butyrate CAS #: 2051-78-7 Rev. Date:

New Jersey Right to Know Components: Allyl butyrate CAS #: 2051-78-7 Rev. Date:  
California Prop. 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

## Section 16: OTHER 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

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|                               |                        |
|-------------------------------|------------------------|
| <b>Issued by:</b>             | <b>Contact Person:</b> |
| Aurochemicals                 | Deo N. Persaud         |
| 7 Nicoll Street               | Revised Date: 8/5/2022 |
| Washingtonville, NY 10992 USA |                        |

Aurochemicals