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

Section 1: IDENTIFICATION

Product Name: **Isovaleric Acid, Natural**
 Product Number: **0310200**
 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

OSHA Hazards **Combustible Liquid, Corrosive**
 GHS Classification **Flammable Liquids (Category 4)**
Acute toxicity, Oral (Category 5)
Acute toxicity, Dermal (Category 5)
Skin irritation (Category 1B)
Serious eye damage (Category 1)

Signal Word: **DANGER**

Pictogram or written description



Hazard Statement: **H227 Combustible liquid**
H303 May be harmful if swallowed
H313 May be harmful with contact to skin
H314 Causes severe skin burns and eye damage

Precautionary Statement **P280 Wear protective gloves/protective clothing/eye and face protection**
P305+ IF IN EYES: Rinse cautiously with water for several minutes,
P351+ Remove contact lenses if present and easy to do.
P338 Continue rinsing

HMIS Classification **Health Hazard 3**
Flammability 2
Physical Hazards 0

Potential Health Effects

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| Inhalation | May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. |
| Skin | May be harmful if absorbed through skin. Causes skin burns |
| Eyes | Causes eye burns |
| Ingestion | May be harmful if swallowed |

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

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| Component | Isovaleric Acid |
| Common Name: | Isovaleric Acid |
| Synonyms: | Isobutyl Formic Acid |
| CAS # | 503-74-2 |
| EC# | 207-975-3 |
| Formula | C ₅ H ₁₀ O ₂ |
| Molecular Weight | 102.13 g/mol |

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. |
| Inhalation: | Provide fresh air, 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: | Remove contaminated clothing and wash before reuse. |

Section 5: FIREFIGHTING MEASURES

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| Conditions of Flammability | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface- No smoking. |
| Suitable Extinguishing Media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.. |
| Special Firefighting Procedures: | Do not stay in danger zone without self contained breathing apparatus. Wear rubber boots and heavy rubber gloves. Prevent fire-fighting water from entering surface or ground water Cool unopened containers with water spray from a safe distance. |
| Other Information | Hazardous decomposition products formed under fire conditions – Carbon oxides |

Section 6: ACCIDENTIAL RELEASE MEASURES

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| Personal precautions | Evacuate personnel to safe areas. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. |
| Environmental-protected measures | Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system. |
| Procedures for cleaning / absorption | Take up with liquid absorbent material. Place in appropriate container and keep closed until disposal. |
| Ventilate area | After clean up, wash spill area and ventilate the area well. |

Section 7: HANDLING AND STORAGE

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| Precautions for safe handling | 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 | 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

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| Exposure Limits: | Contains no substances with occupational exposure limit values. |
| 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. |
| Body Protection: | Complete suite 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: | Required when vapors / aerosols are generated. |
| Eye Protection: | Wear appropriate eye and face protection – Face Shield 8" min. |
| Hand Protection: | Wear chemically resistant gloves of Nitrile rubber. |
| Industrial Hygiene: | Handle in accordance with good industrial hygiene and safety practice. Change contaminated clothing and wash before reuse. Wash hands after working with product. Application of barrier cream is recommended. |

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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| Form: | Liquid |
| Color: | Colorless to pale yellow |
| Odor: | Characteristic |
| Boiling Point: | 175°C |
| Flashpoint: | 71°C |
| Melting Point/Freezing Point: | No data available |

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| Ignition temperature | No data available |
| Lower Explosion Limit | No data available |
| Upper Explosion Limit | No data available |
| Vapor Pressure: | 0.507 hPa (0.380 mmHg) at 20°C |
| Specific Gravity @ 25°C: | 0.923-0.933 |
| Solubility | Soluble in alcohol, chloroform, ether and water |

Section 10: STABILITY AND REACTIVITY

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| Chemical Stability | Stable under recommended storage conditions |
| Possibility of hazardous reactions | No data available |
| Conditions to avoid | Heat, Flames and Sparks |
| Materials to avoid | Bases, Oxidizing agents, Reducing agents |
| Hazardous decomposition products: | Fumes formed under fire conditions – carbon oxides |
| Further information | No data available |

Section 11: TOXICOLOGICAL INFORMATION

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| Acute Toxicity LD50, Oral Rat | >2,000 mg/kg |
| LC50 Inhalation | No data available |
| LD50 Dermal Rabbit | 3,560 mg/kg |
| Other information on acute toxicity | LD50 Intravenous-Mouse- 1,120 mg/kg |
| Skin corrosion/irritation | Skin-Rabbit: Moderate skin irritation |
| Serious eye damage/eye irritation | Eye- Rabbit: Mild 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. |
| 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. |

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| Specific target organ toxicity-repeated exposures (GHS) | No data available |
| Aspiration Hazards | No data available |
| Potential Health effects | |
| Inhalation | May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. |
| Ingestion | May be harmful if swallowed |
| Skin | May be harmful if absorbed through skin. Causes skin burns |
| Eyes | Causes eye burns |
| | Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Inhalation may provoke the following symptoms: spasm, inflammation and edema of the bronchi, spasm, inflammation and edema of the larynx, pneumonitis and/or pulmonary edema. |
| Signs and Symptoms of Exposure | Symptoms and signs of poisoning are: Burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting. |
| Synergistic effects | No data available |
| RTECS: | NY1400000 |

Section 12: ECOLOGICAL INFORMATION

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| 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 |
| Other adverse effects | No data available |

Section 13: DISPOSAL CONSIDERATIONS

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

Section 14: TRANSPORT INFORMATION

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| DOT (US) | UN 3265 Class 8 Packing Group II |
| Proper shipping name | Corrosive liquid, acidic, organic, n.o.s. (Isovaleric acid) |
| Reportable Quantity (RQ) | |
| Marine pollutant | No |
| Poison Inhalation Hazard | No |
| IMDG | UN 3265 Class 8 Packing Group II EMS-No.: F-A, S,B |
| Proper shipping name | ISOVALERIC ACID |
| Marine pollutant | No |
| IATA | UN 3265 Class 8 Packing Group II |

Proper shipping name Isovaleric Acid

Section 15: REGULATORY INFORMATION

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| OSHA Hazards | Combustible Liquid, Corrosive | | |
| 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 | Isovaleric Acid | CAS# 503-74-2 | Rev. Date: 4/24/1993 |
| Pennsylvania Right to Know components | Isovaleric Acid | CAS# 503-74-2 | Rev. Date: 4/24/1993 |
| New Jersey Right to Know components | Isovaleric Acid | CAS# 503-74-2 | Rev. Date: 4/24/1993 |
| 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

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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| Issued by: | Contact Person: |
| Aurochemicals | Deo N. Persaud |
| 7 Nicoll Street | Revised Date: 8/15/2022 |
| Washingtonville, NY 10992 USA | |