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| HEALTH | 2 |
| FLAMMABILITY | 1 |
| REACTIVITY | 0 |

Section 1: IDENTIFICATION

Product Name: **Delta Dodecalactone, Natural**
 Product Number: **0240100**
 CAS No.: **713-95-1**


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 **Irritant**
 GHS Classification Skin irritation (Category 2) H315
 Eye irritation (Category 2A) H319
 Specific target organ toxicity-Single exposure (Category 3) Respiratory System, H335

GHS Label elements, including precautionary statements
 Pictogram 

Signal Word: **Warning**

Hazard Statement(s): H315 Causes skin irritation
 H319 Causes serious eye irritation
 H335 May cause respiratory irritation

Precautionary Statement(s): P261 Avoid breathing dust/fume/gas/mist/vapors/spray
 P305-P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Hazards not otherwise classified (HNOC) or not covered by GHS None

HMIS Classification Health Hazard 2
 Flammability 1
 Physical Hazards 0

Hazards not otherwise classified (HNOC) or not covered by GHS None

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

Ingestion May be harmful if swallowed

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

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| Substances | Delta Decalactone |
| Synonyms: | (+/-)-5-Dodecanolide (+/-)- δ -Heptyl- δ -valerolactone 5-Hydroxydodecanoic acid δ -lactone |
| Formula | C ₁₂ H ₂₂ O ₂ |
| Molecular Weight | 198.30 g/mol |
| CAS # | 713-95-1 |
| EC# | 211-932-4 |

Hazardous Components

| Component | CAS No. | Concentration |
|-----------------|----------|---------------|
| Dodecan-5-olide | 713-95-1 | <=100% |

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 plenty of 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: | Wash contaminated clothing before re-use. |

Section 5: FIREFIGHTING MEASURES

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| Conditions of flammability | Not flammable or combustible. |
| Suitable extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Special protective equipment for firefighters | Wear self contained breathing apparatus for firefighting if necessary. |
| Other Information | Hazardous decomposition products formed under fire conditions – Carbon oxides. |

Section 6: ACCIDENTIAL RELEASE MEASURES

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| Personal precautions | Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe area. |
| Environmental-protected measures Procedures for cleaning / absorption | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. |
| Ventilate area | After sweep up, wash area and ventilate area well. |

Section 7: HANDLING AND STORAGE

Precautions for safe handling
Conditions for safe storage

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.
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: | 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: | Where risk assessment shows air-purifying respirators are appropriate use a full face respirator with multi-purpose combination cartridges as a back up to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respiration that has been NIOSH tested and approved. |
| Eye Protection: | Wear appropriate safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). |
| Hand Protection: | Wear chemically resistant Nitrile rubber gloves and use proper glove removal techniques to avoid skin contact with this product. Wash and dry hands after handling this product. |
| Industrial Hygiene: | Avoid contact with skin, eyes, and clothing. 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

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| Form: | Liquid |
| Color: | Colorless |
| Odor: | No data available |
| Melting Point: | -12°C |
| Boiling Point: | 140°C |
| Flashpoint: | 110°C |
| 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: | 0.940-0.960 |
| Solubility: | Insoluble in water, very soluble in alcohol, propylene glycol and vegetable oil. |

Section 10: STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions

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| Possibility of Hazardous reactions | No data available |
| Conditions to avoid | No data available |
| Materials to avoid | Strong oxidizing agents |
| Hazardous decomposition products | Hazardous decomposition products formed under fire conditions-Carbon oxides. |

Section 11: TOXICOLOGICAL INFORMATION

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| LD50, Oral Rat | >5,000 mg/kg |
| LC50 Inhalation | No data available |
| LD50 Dermal Rabbit | >5,000 mg/kg |
| Further toxicological information | No data available |
| Skin corrosion / irritation | Rabbit – Skin irritation – 24h |
| Serious eye damage / eye irritation | No data available |
| Respiratory or skin sensitization | No data available |
| Germ cell mutagenicity | No data available |

Carcinogenicity

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| 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. |

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| Reproductive toxicity | 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 |

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| 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 |
| | Eyes | 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 | UQ0850000 |

Section 12: ECOLOGICAL INFORMATION

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| Toxicity | No data available |
| Other adverse effects | No data available |

Section 13: DISPOSAL CONSIDERATIONS

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

OSHA Hazards Irritant

SARA 302 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 Dodecan-5-olide CAS # 713-95-1 Rev. Date:

New Jersey Right to Know Components Dodecan-5-olide CAS # 713-95-1 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

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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