

| | |
|--------------|---|
| HEALTH | 0 |
| FLAMMABILITY | 1 |
| REACTIVITY | 0 |

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

| | |
|----------------|----------------------------------|
| Product Name | 2,6-Nonadienal 1% in PG, Natural |
| Product Number | 0337701 |
| CAS-No. | 557-48-2/57-55-6 |

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 |

1.4 Emergency Telephone Number

1-800-535-5053
International - 1-352-323-3500 collect

Section 2: HAZARD(s) IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Combustible liquid (Category 2), H227
For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label Elements, Including precautionary statements

Pictogram



| | | |
|---------------------|-----------|--|
| Signal Statement | Warning | |
| Hazard Statement(s) | H315 | Causes skin corrosion/irritation. Category 2 |
| | H315+H320 | Causes skin and eye irritation. |
| | H319 | Causes serious eye irritation. Category 2A |

| | | |
|----------------------------|---|---|
| Precautionary Statement(s) | P264 | Wash thoroughly after handling. |
| | P280 | Wear protective gloves. |
| | P302+P352 | IF ON SKIN: Wash with plenty of water. |
| | 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 persists: Get medical advice/attention. | |
| P362+P364 | Take off contaminated clothing and wash it before reuse. | |

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

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

| | |
|------------------|---|
| Synonym | Cucumber aldehyde/1,2-Propanediol |
| Formula | C ₉ H ₁₄ O/C ₃ H ₈ O ₂ |
| Molecular Weight | 138.21 g/mol/76.09g/mol |
| CAS No. | 557-48-2/57-55-6 |
| EC No. | 209-178-6/200-338-0 |
| Index No. | N/A |

Hazardous Components

| Component | Classification | Concentration |
|------------------|------------------------------------|---------------|
| Propane-1,2-diol | Combustible liq. (Category); H227 | ~99 % |
| | | |

For the full text of the H-Statements mentioned in this Section, see Section 16.

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 | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| Contact with skin: | Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water. |
| Contact with eyes: | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| Ingestion | DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. |
| 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

Carbon oxides

- 5.3 **Advice for fire fighters** Wear self contained breathing apparatus for firefighting if necessary.
- 5.4 **Further information** Use water spray to cool unopened containers.

Section 6: ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal precautions, protective equipment and emergency procedures** Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.
- 6.2 **Environmental precautions** Prevent further leakage or spillage. Discharge into the environment must be avoided. Do not allow to enter drains or sewage system.
- 6.3 **Methods and materials for containment and clean up** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
- 6.4 **Reference to other sections** For disposal see section 13.

Section 7: HANDLING AND STORAGE

- 7.1 **Precautions for safe handling** Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection. For precautions see section 2.2.
- 7.2 **Conditions for Safe storage** Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Combustible liquids.
- 7.3 **Specific End use(s)** Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

8.2

| Component | CAS-No | Value | Control Parameters | Basis |
|------------------|---------|-------|----------------------|---|
| Propane-1,2-diol | 57-55-6 | TWA | 10 mg/m ³ | USA. Workplace Environmental Exposure Levels (WEEL) |

Appropriate Engineering Controls Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday.

Personal protective equipment

These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situations of anticipated use by our customers. They should not be construed as offering an approval or any specific use scenario.

Eye/face protection Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory

practices. Wash and dry hands.

| | |
|-----------------------------------|--|
| Body protection | Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. |
| Respiratory protection | Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup 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 CEN (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 | Form: liquid Color: colorless to pale yellow |
| b | Odor | Green vegetable, cucumber |
| c | Odor Threshold | No data available |
| d | pH | No data available |
| e | Melting Point /Freezing Point | N/A |
| f | Initial boiling point and boiling range | ~190 °C |
| g | Flash Point | ~110 °C |
| h | Evaporation Rate | No data available |
| i | Flammability (Solid, Gas) | No data available |
| j | Upper/lower Flammability Limit | No data available |
| k | Vapor pressure | No data available |
| l | Vapor density | 2.63 (Air=1.0) |
| m | Relative density @25°C | 1.036 g/cm ³ |
| n | Solubility | Soluble in ethanol, insoluble in water |
| o | Partition coefficient: n-octanol/water | No data available |
| p | Auto-ignition Temp. | No data available |
| 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 | Stable under recommended storage conditions. |
| 10.3 | Possibility of Hazardous reactions | Contains the following stabiliser(s): α -Tocopherol (≥ 0.05 - ≤ 1 %) No data available |
| 10.4 | Conditions to avoid | No data available |
| 10.5 | Incompatible materials | Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing Agents |
| 10.6 | Hazardous decomposition products | No data available |
| 10.7 | Further Information | No data available |

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

| | |
|-----------------------------------|-------------------|
| LD50- Oral - Rat | 20,000 mg/kg |
| LC50 - Inhalation: | No data available |
| LD50 Dermal Rabbit | 20,800 mg/kg |
| Skin corrosion/irritation | Rabbit |
| 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 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 | No data available |

| | |
|---|--|
| exposure (GHS) | No data available |
| Specific target organ toxicity-repeated exposures (GHS) | No data available |
| Aspiration Hazards | No data available |
| Signs and Symptoms of Exposure | Gastrointestinal disturbance, Nausea, Headache, Vomiting |
| | To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated |
| Synergistic effects | No data available |
| RTECS: | RA5391800/TY2000000 |

Section 12: ECOLOGICAL INFORMATION

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|--|--|
| 12.1 Toxicity | <u>To Fish:</u> Mortality NOEC- Pimephales promelas (fathead minnow) 52,930 mg/l 96 h <u>To Daphnia and other aquatic invertebrates</u> Mortality NOEC – Daphnia 13.020 mg/l 48 h EC-50 Daphnia magna (water flea) >10,000 mg/l 48 h |
| 12.2 Persistence and degradability | No data available |
| 12.3 Bioaccumulative potential | No data available |
| 12.4 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 | No data available |

Section 13: DISPOSAL CONSIDERATIONS

| | |
|------------------------------|--------------------------------|
| 13.1 Disposal methods | |
| 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

| | |
|---------------------|--|
| 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 |

Safety Data Sheet

313.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right to Know
components

No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right to Know components

(2E,6Z)-Nona-2-trans,cis-6-dien-1-al; CAS# 557-48-2; Rev. Date:
Propane-1,2-diol CAS# 57-55-6 Rev. Date: 8/11/1989

New Jersey Right to Know components

(2E,6Z)-Nona-2-trans,6-cis-dien-1-al; CAS# 557-48-2; Rev. Date:
 α -Tocopherol; CAS# 59-02-9
Propane-1,2-diol CAS# 57-55-6 Rev. Date: 8/11/1989

California Prop. 65 components

This product does not contain any chemical known to the 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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