

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

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

| | |
|----------------|--|
| Product Name | Phenylacetaldehyde 50% in PEA, Natural |
| Product Number | 0287400 |
| CAS-No. | 122-78-1 / 60-12-8 |

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 substance or mixture

| | |
|--|---|
| GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) | Highly Flammable liquid and vapor (Category 4), H227 Acute aquatic 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)

| | |
|------|----------------------------------|
| H227 | Combustible Liquid |
| H302 | Harmful if swallowed |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |

Precautionary Statement(s)

| | |
|------|---|
| P210 | Keep away from heat/sparks/open flames/hot surfaces – No smoking |
| P261 | Avoid breathing dust/fume/gas/mist/vapors/spray |
| 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+P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water |
| P304+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 |
| P370+P378 | In case of fire: use dry sand, dry chemical or alcohol resistant foam for extinction |
| 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 |
| P370+P378 | In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction |
| P403+P233 | Store in a well ventilated place. Keep container tightly closed |
| P403+P235 | Store in a well ventilated place. Keep cool |
| P405 | Store locked up |
| P501 | Dispose of contents/container to an approved waste disposal plant |

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

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Phenylacetaldehyde 50% in PEA- Mixture

| | |
|------------------|-----------------------|
| Formula | |
| Molecular Weight | g/mol |
| CAS-No | 122-78-1 / 60-12-8 |
| EC-No. | 204-574-5 / 200-456-2 |

Hazardous Components

| Component | Classification | Concentration |
|---|---|---------------|
| Phenylacetaldehyde (<i>Ingredient #1</i>) | Flammable liquids (4), H227 | 50% |
| 2-Phenethanol (<i>Ingredient #2</i>) | Acute aquatic toxicity (4), H302 Skin irritation (2), H315 Eye irritation (2A) H319 Specific target organ toxicity-single exposure (3) Respiratory System H335 | 50% |

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 | Provide fresh air; keep at rest and at a comfortable position to breathe. Consult a physician |
| Contact with skin: | Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water. Consult a physician |
| Contact with eyes: | Rinse thoroughly with plenty of water for at least 15 minutes as a precaution. Consult a physician. |
| Ingestion | DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |
| 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. Emits toxic fumes under fire conditions
- 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 vapors. Mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. **Vapors can accumulate in low areas.**
- 6.2 **Environment precautions** Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system. Discharge into the environment must be avoided.
- 6.3 **Methods and materials for containment and clean up** Pick up and arrange disposal without creating dust. 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 inhalation of vapor or mist. Use explosion proof equipment. Keep away from sources of ignition-No smoking. Take measures to prevent the buildup of electrostatic charge.
- 7.2 **Conditions for Safe storage** Keep container tightly closed in a dry and well-ventilated place. Containers which have been opened must be carefully resealed and kept upright to prevent leakage.
- 7.3 **Specific End use(s)** **Hydroscopic**
Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 **Control parameters**
Contains no Components with workplace control parameters
- 8.2 **Exposure Controls**
Appropriate Engineering Controls Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the work day.
- 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 tightly fitting safety goggles. NIOSH tested and approved. |
| Skin protection | Wear chemically resistant gloves of Butyl rubber. 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 | Complete suit 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 (U) 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 faced supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (U) or CEN (EU). |
| Control of environmental exposure | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. |

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | | |
|---|--|--|
| a | Appearance | Liquid, Clear, Colorless, Oily |
| b | Odor | Green floral and hyacinth |
| c | Odor Threshold | No data available |
| d | pH | No data available |
| e | Melting Point /Freezing Point | No data available |
| f | Boiling Point | No data available |
| g | Flash Point | No data available |
| 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 | No data available |
| m | Relative density @20°C | 1.036-1.058 |
| n | Solubility | Soluble in water Soluble in most organic solvents |
| 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 | May form peroxides on prolonged storage. Date container and test periodically for peroxides |
| 10.4 | Conditions to avoid | Heat, Flames and Sparks |
| 10.5 | Incompatible materials | Strong oxidizing agents, Strong acids, Strong bases, Alkalies |
| 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
LD50-Oral-Mouse
LC50-Inhalation

Ingredient #1

1,500 mg/kg
3,890 mg/kg
No data available

Acute Toxicity

LD50-Oral- Rat

Ingredient #2

1,790 mg/kg
Remarks: Behavioral: Coma. Gastrointestinal disturbance

LC50- Inhalation -Rat
LD50-Dermal

No data available
No data available

Skin corrosion/irritation
Respiratory or skin sensitization
Germ Cell mutagenicity

Ingredient #2: Guinea Pig: Mild skin irritation
Ingredient #2: Rabbit: Moderate eye irritation
No data available

Carcinogenicity

IARC No component of this mixture, present levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH No compound of this mixture 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 mixture, 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 mixture, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

Ingredient #2:

Developmental Toxicity- Rat-Oral
Effects on embryo or fetus: Fetal death. Specific Developmental Abnormalities: Musculoskeletal system; Urogenital system; Eye, ear; Craniofacial (including nose and tongue).
Effects on Newborn: Growth statistics (e.g.: reduced weight gain).

Developmental Toxicity-Rat-Skin
Specific Developmental Abnormalities: Musculoskeletal system

Teratogenicity
Specific target organ toxicity-single exposure (GHS)

No data available
Ingredient #1: May cause respiratory irritation

Safety Data Sheet

Specific target organ toxicity-repeated exposures (GHS)
Aspiration Hazards
Signs and Symptoms of Exposure

No data available

No data available

Ingredient #2: Cough, Shortness of breath, Headache, Nausea, Vomiting.
Stomach irregularities-Based on Human evidence

This product is a mixture (blend) and has not been tested for health hazards. The health hazard information provided herein is provided in accordance with 29CR 1910.1200 and is based on the testing of individual components, tested at higher concentrations and at full strength.

Synergistic effects
RTECS:

No data available

Not available

Section 12: ECOLOGICAL INFORMATION

| | |
|---|---|
| 12.1 Toxicity | No data available |
| 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 | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Ingredient #1: Very Toxic to aquatic life with long lasting effects. Do not empty into drains. |

Section 13: DISPOSAL CONSIDERATIONS

| | |
|-----------------------|--------------------------------|
| 13.1 Disposal methods | |
| Product: | According to local regulations |
| Packaging | According to local regulations |

Section 14: TRANSPORT INFORMATION

| | |
|--------------------------|---|
| DOT (US) | NA Number -1993 Class: None Packing Group III |
| Proper Shipping Name | Combustible Liquid, n.o.s. |
| Reportable Quantity (RQ) | No |
| Marine pollutant | No |
| Poison Inhalation Hazard | No |
| 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 313. |
| SARA 311/312 Hazards | Acute Health Hazard, Chronic Health Hazard |

Safety Data Sheet

Massachusetts Right to Know
components

No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right to Know components

Phenylacetaldehyde
2-Phenylethanol

CAS# 122-78-1

Rev. Date:

CAS# 60-12-8

Rev. Date:

New Jersey Right to Know components

Phenylacetaldehyde
2-Phenylethanol

CAS# 122-78-1

Rev. Date:

CAS# 60-12-8

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 2
Reactive 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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| Washingtonville, NY 10992 USA | |