

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

Section 1: PRODUCT AND COMPANY IDENTIFICATION**1.1 Product identifiers**

| | |
|----------------|--|
| Product Name | Carvomenthenol (Terpinen-4-ol), Natural |
| Product Number | 0224800 |
| CAS-No. | 562-74-3 |

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) | Flammable Liquid (Category 4) (H227) Acute toxicity, Oral (Category 4), H302 Skin Irritation (Category 2), H315 |
|--|---|

2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement

Warning

Hazard Statement(s)

| | |
|------|------------------------|
| H227 | Combustible liquid |
| H302 | Harmful if swallowed |
| H317 | Causes skin irritation |

Precautionary Statement(s)

| | |
|------|--|
| P210 | Keep away from heat/sparks/open flames/hot surfaces – No smoking |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection |
| P362 | Take off contaminated clothing and wash before reuse. |
| P403 | Store in a well ventilated place. Keep cool |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations |

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

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

| | |
|------------------|-----------------------------------|
| Chemical | 4-Terpineol |
| Formula | C ₁₀ H ₁₂ O |
| Molecular Weight | 148.2 g/mol |
| CAS-No | 562-74-3 |
| EC-No. | 209-235-5 |

Hazardous Components

| Component | Classification | Concentration |
|-------------------------------|--|---------------|
| 2-Methyltetrahydrofuran-3-one | Flammable liquids (4), H227 Acute toxicity, Oral (4), H302 Skin irritant (2), H315 | - |

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

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|-------------------------|---|
| General Advice | Consult a physician. Symptoms of poisoning may occur after several hours; therefore medical observations for at least 48 hours after the accident. 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: | Flush eyes with water as a precaution. |
| Ingestion | Immediately contact a physician. 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** No data available
- 5.3 **Advice for fire fighters** No special measures required

- 5.4 **Further information** Use water spray to cool unopened containers. Collect contaminated fire fighting water separately. It must not enter the sewage system.

Section 6: ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal precautions, protective equipment and emergency procedures** Use of personal protective equipment not required. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
- 6.2 **Environment precautions** Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system.
- 6.3 **Methods and materials for containment and clean up** Contain spillage. Absorb spill with absorbent material, wet sweep up with broom and 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** No special precautions are necessary if used correctly
- 7.2 **Conditions for Safe storage** No special measures needed
- 7.3 **Specific End use(s)** Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 **Control parameters**
Contains no substances with occupational exposure limit values
- 8.2 **Exposure Controls**
Appropriate Engineering Controls Provide adequate general and local exhaust ventilation. 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 Safety goggles are recommended during refilling. Use equipment for eye protection tested and approved under appropriate government standards.
- Skin protection Handle product with gloves. Gloves to be impermeable and resistant to the substance/preparation. Selection of glove material should be based on consideration of the penetrate times, rates of diffusion and the degradation. Dispose of contaminated gloves after use. Wash and dry hands.
- Body protection No special requirements – Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of the work day
Avoid contact with the skin
Avoid contact with eyes

Respiratory protection Not required

Control of environmental exposure Keep away from foodstuff, beverages and feed.
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 | Colorless liquid |
| b | Odor | Bread-like; spicy; floral |
| c | Odor Threshold | No data available |
| d | pH | No data available |
| e | Melting Point /Freezing Point | No data available |
| f | Boiling Point | 88°C (@ 6mm) |
| g | Flash Point | 93°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 | No data available |
| m | Relative density @20°C | 0.930-0.940 |
| n | Solubility | Not miscible or difficult to mix; soluble in alcohol |
| 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 | No data available |
| 10.4 | Conditions to avoid | No data available |
| 10.5 | Incompatible materials | No data available |
| 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 1300 mg/kg

LC50-Inhalation No data available

LD50-Dermal - Rabbit >2500 mg/kg

Skin corrosion/irritation Irritant to skin and mucous membranes

Serious eye damage/eye irritation No irritating effect

Respiratory or skin sensitization No sensitizing effects known

Germ Cell mutagenicity No data available

Carcinogenicity

IARC Substance is not listed

NTP Substance is not listed

OSHA Substance is not listed

Reproductive toxicity No data available

Teratogenicity No data available

Specific target organ toxicity-single 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 | To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated |
| Synergistic effects | No data available |
| RTECS: | BZ8225000 |

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 | Water hazard class (2) Self-Assessment : Hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water even if small quantities leak into the ground. |

Section 13: DISPOSAL CONSIDERATIONS

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

Section 14: TRANSPORT INFORMATION

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| DOT (US) | Not dangerous goods |
| IMDG | Not a dangerous goods |
| IATA | Not a dangerous goods |

Section 15: REGULATORY INFORMATION

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

Section 16: OTHER INFORMATION

HMIS Rating

Health hazard 2
Chronic Health Hazard
Flammability 2
Physical Hazard 0

Chemical Safety Assessment has not been carried out.

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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