

|              |   |
|--------------|---|
| HEALTH       | 3 |
| FLAMMABILITY | 1 |
| REACTIVITY   | 0 |

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

|                |                          |
|----------------|--------------------------|
| Product Name   | <b>Camphene, Natural</b> |
| Product Number | <b>0222900</b>           |
| CAS-No.        | <b>79-92-5</b>           |

### 1.2 Product Recommended Use

**Flavorings**

### 1.3 Preparation Information

|           |  |
|-----------|--|
| Company   | Aurochemicals<br>7 Nicoll Street<br>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 solids (Category 1)<br>Eye irritation (Category 2A)<br>Acute aquatic hazard, (Category 1)<br>Chronic aquatic hazard, (Category 1) |
|--|---|

### 2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement

**Danger**

Hazard Statement(s)

|      |  |
|------|--|
| H228 | Flammable solid.                                     |
| H319 | Causes serious eye irritation                        |
| H400 | Very toxic to aquatic life                           |
| H410 | Very toxic to aquatic life with long lasting effects |

## Precautionary Statement(s)

|                |   |
|----------------|---|
| P210           | Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.   |
| P240           | Ground/bond container and receiving equipment   |
| P241           | Use explosion-proof electrical/ ventilating/ lighting/ equipment.   |
| P264           | Wash skin thoroughly after handling.  |
| P270           | Do not eat, drink or smoke when using this product.   |
| P273           | Avoid release to the environment.   |
| P280           | Wear eye protection/ face protection/gloves.  |
| P302+P352      | IF ON SKIN: Wash with plenty of soap and water.   |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes.<br>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           | Get medical advice/ attention if you feel unwell.   |
| P370+P378      | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  |
| P391           | Collect spillage.   |
| 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

|                           |                                     |
|---------------------------|-------------------------------------|
| Chemical characterization | Natural Product                     |
| Synonyms                  | 2,2-Dimethyl-3-Methylene Norbornane |
| Formula                   | C <sub>10</sub> H <sub>16</sub>     |
| Molecular Weight          | 136.24 g/mol                        |
| CAS-No                    | 79-92-5                             |
| EC-No.                    | 201-234-8                           |

## Hazardous Components

| Component | Classification  | Concentration |
|-----------|---|---------------|
| Camphene  | Flam.Sol. 2; H228; Eye Irrit (2A),<br>H319; Aquatic Acute 1; H400<br>Aquatic Chronic 1-H410 | <= 100%       |

## 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.   |
| <b>4.2 Most important symptoms and effects both acute and delayed</b>                  | See section 2.2 and or section 11   |
| <b>4.3 Indication of any immediate medical attention and special treatment needed.</b> | No data available   |

## Section 5: FIREFIGHTING MEASURES

|  |  |
|--|--|
| <b>5.1 Extinguishing Media</b><br>Suitable Extinguishing Media   | Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.                                       |
| <b>5.2 Special hazards arising from the substance or mixture</b> | Carbon oxides  |
| <b>5.3 Advice for fire fighters</b>                              | Wear self contained breathing apparatus for firefighting if necessary. Emits toxic fumes under fire conditions |
| <b>5.4 Further information</b>                                   | Use water spray to cool unopened containers.   |

## Section 6: ACCIDENTAL RELEASE MEASURES

|  |  |
|--|--|
| <b>6.1 Personal precautions, protective equipment and emergency procedures</b> | Use personal protective equipment. Avoid dust formation. Avoid breathing vapors. Mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. |
| <b>6.2 Environment precautions</b>   | Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system.   |
| <b>6.3 Methods and materials for containment and clean up</b>                  | Sweep up with broom and shovel. Avoid creating dust. Place in a suitable, closed container for disposal.   |
| <b>6.4 Specific end use(s)</b>   | Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.   |

## Section 7: HANDLING AND STORAGE

|  |   |
|--|---|
| <b>7.1 Precautions for safe handling</b> | Avoid contact with skin and eyes. Avoid inhalation of dust and aerosols. Provide adequate ventilation at places where dust is formed. |
| <b>7.2 Conditions for Safe storage</b>   | Keep container tightly closed in a dry and well-ventilated place.   |
| <b>7.3 Specific End use(s)</b>           | Flavorings  |

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters (Components with workplace control parameters):

Contains no substance with workplace control parameters

### 8.2 Exposure Controls

Appropriate Engineering Controls

Handle in accordance with good industrial hygiene and safety practices.  
Mechanical exhaust required, Safety Shower and Eye Bath

### 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, Nitrile rubber gloves, 11 mm. 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 Impervious clothing protecting against chemicals, made of flame retardant antistatic material 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 particle respirator type N100 (US) or type P3 (EN143) respirator cartridges as a back up 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                     | Off-white, crystalline |
| b | Odor                           | Camphoraceous          |
| c | Odor Threshold                 | Odorless               |
| d | pH                             | No data available      |
| e | Melting Point /Freezing Point  | 44-52°C                |
| f | Boiling Point                  | 156-160°C - lit        |
| g | Flash Point                    | 26-42°C closed cup     |
| 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                          | (Air=1) 4.7                      |
| m | Relative density at 20°C               | 0.839-0.87                       |
| n | Solubility                             | Soluble in ethanol and 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

|  |   |
|--|---|
| <b>10.1 Reactivity</b>                         | No hazardous reactions if stored and handled as prescribed/indicated.     |
| <b>10.2 Chemical Stability</b>                 | Stable under recommended storage conditions                               |
| <b>10.3 Possibility of Hazardous reactions</b> | Violent reactions possible with:<br>Strong oxidizing agents; Strong bases |
| <b>10.4 Conditions to avoid</b>                | Heat, Flame and other ignition sources                                    |
| <b>10.5 Incompatible materials</b>             | Strong oxidizing agents, Strong bases                                     |
| <b>10.6 Hazardous decomposition products</b>   | Carbon oxides   |
| <b>10.7 Further Information</b>                | No data available   |

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute Toxicity

|                     |                |
|---------------------|----------------|
| LD50-Oral-Rat       | 2,360 mg/kg    |
| LC50-Inhalation-Rat | >12.2 mg/l 4 h |
| LD50-Dermal- Rabbit | 2,500 mg/kg    |

|                                   |   |
|-----------------------------------|---|
| Skin corrosion/irritation         | Rabbit – No skin irritation – 24 hr (Draize Test) |
| Serious eye damage/eye irritation | Rabbit – Eye irritation (Draize Test)             |

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Respiratory or skin sensitization | Does not cause skin sensitisation. |
| 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 - Lungs  |
| Specific target organ toxicity-repeated exposures (GHS) | No data available  |
| Aspiration Hazards                                      | No data available  |
| Potential Health effects                                | To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated |
| Signs and Symptoms of Exposure                          |  |
| Synergistic effect                                      | No data available  |
| RTECS:  | DG0875000  |

## Section 12: ECOLOGICAL INFORMATION

|  |   |
|--|---|
| <b>12.1 Toxicity</b>                           |   |
| To Fish  | LC50-Gambusia affinis (Mosquito fish) – 180 mg/l – 96 h   |
| To Algae                                       | EC50 – Growth inhibition –<br>Scenedesmus quadricauda (Green Algae) >10 mg/l                    |
| <b>12.2 Persistence and degradability</b>      | No data available   |
| <b>12.3 Bioaccumulative potential</b>          | Bioaccumulation: Leuciscus idus (Golden orfe) 3 d – 50ug/l<br>Bioconcentration factor (BCF) 5.3 |
| <b>12.4 Mobility in soil</b>                   | No data available   |
| <b>12.5 Results of PBT and vPvB assessment</b> | PBT/vPvB assessment not available as chemical safety assessment not required / not conducted    |
| <b>12.6 Other adverse effects</b>              | No data available   |

## Section 13: DISPOSAL CONSIDERATIONS

|                              |                                |
|------------------------------|--------------------------------|
| <b>13.1 Disposal methods</b> |                                |
| Product:                     | According to local regulations |
| Packaging                    | According to local regulations |

## Section 14: TRANSPORT INFORMATION

|                           |  |
|---------------------------|--|
| <b>DOT (US)</b>           | <b>UN-Number: 1325 Class: 4.1 Packing Group: II</b>                    |
| Proper shipping name:     | Flammable solids, organic, n.o.s. (2,2-Dimethyl-3-methylene norborane) |
| Reportable Quantity (RQ)  | No   |
| Marine Pollutant:         | No   |
| Poison Inhalation Hazard: | No   |
| <b>IMDG</b>               | UN-Number: 1325 Class: 4.1 Packing Group: II EMS-No: F-A, S-G          |

# Safety Data Sheet

Proper shipping name: Flammable solids, organic, n.o.s. (2,2-Dimethyl-3-methylene norborane)  
**IATA** UN-Number: 1325 Class: 4.1 Packing Group: II  
 Proper shipping name: Flammable solids, organic, n.o.s. (2,2-Dimethyl-3-methylene norborane)

## Section 15: REGULATORY INFORMATION

Reach No. A registration number is not available for this substance as its uses are exempted from registration, the annual tonnage not require a registration or the registration is envisaged for a later registration deadline.

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 No components are subject to the Massachusetts Right to Know Act.  
 Pennsylvania Right to Know components No components are subject to the Pennsylvania Right to Know Act.  
 New Jersey Right to Know components No components are subject to the New Jersey Right to Know Act.  
 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 3  
 Chronic Health Hazard  
 Flammability 1  
 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.

|                   |                        |
|-------------------|------------------------|
| <b>Issued by:</b> | <b>Contact Person:</b> |
| Aurochemicals     | Deo N. Persaud         |

# Safety Data Sheet



The Natural Choice for Flavor  
and Fragrance Ingredients

|                               |                        |
|-------------------------------|------------------------|
| 7 Nicoll Street               | Revised Date: 8/8/2022 |
| Washingtonville, NY 10992 USA |                        |

Aurochemicals