

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

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

|                |                          |
|----------------|--------------------------|
| Product Name   | Coffee Furanone, Natural |
| Product Number | 0337300                  |
| CAS-No.        | 3188-00-9                |

### 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 liquids (Category 3), H226<br>Acute toxicity, Oral (Category 4), H302 |
|--|---|

### 2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement  
Hazard Statement(s)

#### Warning

|      |                            |
|------|----------------------------|
| H226 | Flammable liquid and vapor |
| H302 | Harmful if swallowed       |

Precautionary Statement(s)

|          |   |
|----------|---|
| P210     | Keep away from heat/sparks/open flames/hot surfaces – No smoking          |
| P233     | Keep container tightly closed   |
| P240     | Ground/bond container and receiving equipment                             |
| P241     | Use explosion proof electrical/ventilating/lighting/equipment             |
| P242     | Use only non-sparking tools   |
| P243     | Take precautionary measures against static discharge                      |
| P264     | Wash skin thoroughly after handling                                       |
| P270     | Do not eat/drink or smoke when using this product                         |
| P280     | Wear protective gloves/protective clothing/eye protection/face protection |
| P301P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell |

|                |  |
|----------------|--|
| P303+P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P330           | Rinse mouth  |
| P370+P378      | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.                      |
| P403+P235      | Store in a well ventilated place. Keep cool.   |
| P501           | Dispose of contents/container to an approved waste disposal plant.   |
|                | None   |

### 2.3 HNOC (Hazards not otherwise classified or not covered by GHS)

## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Substances

|                  |  |
|------------------|--|
| Synonym          | 4.5-Dihydro-2-methyl-3(2H)-furanone<br>2-Methyltetrahydrofuran-3-one |
| Formula          | C <sub>5</sub> H <sub>8</sub> O <sub>2</sub>                         |
| Molecular Weight | 100.12 g/mol   |
| CAS-No           | 3188-00-9  |
| EC-No.           | 221-685-4  |

#### Hazardous Components

| Component                     | Classification  | Concentration |
|-------------------------------|---|---------------|
| 2-Methyltetrahydrofuran-3-one | Flammable liquids (3), H226<br>Acute Toxicity, Oral (4), H302 | -             |

## 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:      | Flush eyes with water as a precaution.  |
| 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 | For small (incipient) fires, use media such as alcohol foam, dry chemical, or carbon dioxide. For large fires, apply water from as far away as possible. Use very large quantities of water (flooding) applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water. |
|------------------------------|---|

### 5.2 Special hazards arising from the substance or mixture

Formed under fire conditions: 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 | <b>Personal precautions, protective equipment and emergency procedures</b> | 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 | <b>Environment precautions</b>   | 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 | <b>Methods and materials for containment and clean up</b>                  | Contain spillage. Absorb spill with absorbent material, wet sweep up with broom and place in a suitable, closed container for disposal.  |
| 6.4 | <b>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

- |     |                                      |   |
|-----|--------------------------------------|---|
| 7.1 | <b>Precautions for safe handling</b> | Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition-No smoking. Take measures to prevent the buildup of electrostatic charge. |
| 7.2 | <b>Conditions for Safe storage</b>   | Keep container tightly closed in a dry, cool and well-ventilated place. Containers which have been opened must be carefully resealed and kept upright to prevent leakage.         |
| 7.3 | <b>Specific End use(s)</b>           | Flavorings  |

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- |                                      |   |   |                                  |   |                                      |  |                     |  |                 |   |                 |   |                        |  |
|--------------------------------------|---|---|----------------------------------|---|--------------------------------------|--|---------------------|--|-----------------|---|-----------------|---|------------------------|--|
| 8.1                                  | <b>Control parameters</b>   | Contains no substances with occupational exposure limit values  |                                  |   |                                      |  |                     |  |                 |   |                 |   |                        |  |
| 8.2                                  | <b>Exposure Controls</b>  | <table border="0"> <tr> <td style="vertical-align: top;">Appropriate Engineering Controls</td> <td>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.</td> </tr> <tr> <td style="vertical-align: top;"><b>Personal protective equipment</b></td> <td><b>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.</b></td> </tr> <tr> <td style="vertical-align: top;">Eye/face protection</td> <td>Safety glasses with side shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).</td> </tr> <tr> <td style="vertical-align: top;">Skin protection</td> <td>Wear chemically resistant rubber gloves. 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.</td> </tr> <tr> <td style="vertical-align: top;">Body protection</td> <td>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</td> </tr> <tr> <td style="vertical-align: top;">Respiratory protection</td> <td>Where risk assessment shows air-purifying respirators are appropriate, use a full face</td> </tr> </table> | 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. | <b>Personal protective equipment</b> | <b>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.</b> | Eye/face protection | Safety glasses with side shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). | Skin protection | Wear chemically resistant rubber gloves. 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 |
| 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.   |   |                                  |   |                                      |  |                     |  |                 |   |                 |   |                        |  |
| <b>Personal protective equipment</b> | <b>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.</b>      |   |                                  |   |                                      |  |                     |  |                 |   |                 |   |                        |  |
| Eye/face protection                  | Safety glasses with side shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).  |   |                                  |   |                                      |  |                     |  |                 |   |                 |   |                        |  |
| Skin protection                      | Wear chemically resistant rubber gloves. 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                             | Pale yellow liquid                                   |
| b | Odor                                   | Coffee   |
| c | Odor Threshold                         | No data available                                    |
| d | pH                                     | No data available                                    |
| e | Melting Point /Freezing Point          | No data available                                    |
| f | Boiling Point                          | 139°C  |
| g | Flash Point                            | 39°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                          | No data available                                    |
| m | Relative density @25°C                 | 1.035-1.050  |
| n | Solubility                             | Insoluble 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 | No data available                           |
| 10.4 | Conditions to avoid                | Heat, Flames and Sparks                     |
| 10.5 | Incompatible materials             | Strong oxidizing 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

|                       |                  |                   |
|-----------------------|------------------|-------------------|
| <b>Acute Toxicity</b> |                  |                   |
|                       | LD50-Oral –Mouse | 1,860 mg/kg       |
|                       | LC50-Inhalation  | No data available |

|   |  |
|---|--|
| LD50-Dermal   | No data available  |
| Skin corrosion/irritation                               | No data available  |
| Serious eye damage/eye irritation                       | No data available  |
| Respiratory or skin sensitization                       | No data available  |
| Germ Cell mutagenicity                                  | No data available  |
| Carcinogenicity   | No data available  |
|   | 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)    | 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:  | LU3579000  |

## 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              | 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

|                       |   |
|-----------------------|---|
| <b>DOT (US)</b>       |   |
| UN Number:            | UN 1224 Class 3 Packing Group: III                      |
| Proper Shipping Name: | Ketones, Liquid, n.o.s. (2-Methyltetrahydrofuran-3-one) |
| Marine Pollutant:     | No  |

# Safety Data Sheet

|                           |   |         |                    |
|---------------------------|---|---------|--------------------|
| Poison Inhalation Hazard: | No  |         |                    |
| <b>IMDG</b>               |   |         |                    |
| UN Number:                | UN 1224   | Class 3 | Packing Group: III |
| Proper Shipping Name:     | Ketones, Liquid, n.o.s. (2-Methyltetrahydrofuran-3-one) |         |                    |
| Marine Pollutant:         | No  |         |                    |
| <b>IATA</b>               |   |         |                    |
| UN Number:                | UN 1224   | Class 3 | Packing Group: III |
| Proper Shipping Name:     | Ketones, Liquid, n.o.s. (2-Methyltetrahydrofuran-3-one) |         |                    |

## 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                   | 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  | 2-Methyltetrahydrofuran-3-one   | CAS# 3188-00-9 | Rev. Date: |
| New Jersey Right to Know components    | 2-Methyltetrahydrofuran-3-one   | CAS# 3188-00-9 | 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         | 1 |
| Chronic Health Hazard |   |
| Flammability          | 2 |
| Physical Hazard       | 1 |

# Safety Data Sheet

## 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> |
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| 7 Nicoll Street               | Revised Date: 8/9/2022 |
| Washingtonville, NY 10992 USA |                        |