

HEALTH	0
FLAMMABILITY	1
REACTIVITY	0

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product Name	<b>Whiskey Lactone, Natural</b>
Product Number	<b>0380300</b>
CAS-No.	<b>39212-23-2</b>

### 1.2 Product Recommended Use

**Flavorings**

### 1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992
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)*  
 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  
Hazard Statement(s)

**Warning**

H315 Causes skin irritation  
 H319 Causes eye irritation  
 H335 May cause respiratory irritation

Precautionary  
Statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
 P264 Wash skin thoroughly after handling  
 P271 Use only outdoors or in a well ventilated area  
 P280 Wear protective gloves/protective clothing/eye protection/face protection  
 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 to 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  
 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  
 P403+P233 Store in a well ventilated place. Keep container tightly closed  
 P405 Store locked up  
 P501 Dispose of contents/container to an approve 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** (±)-5-Butyl-4-methyldihydro-2(3H)-furanone  
 Synonyms  
 Formula  $C_9H_{16}O_2$   
 Molecular Weight 156.22 g/mol  
 CAS-No 39212-23-2  
 EC-No. 254-357-4

**No ingredients are hazardous according to OSHA criteria  
 No components need to be disclosed according to the applicable regulations**

### Section 4: FIRST AID MEASURES

**4.1 Description of first aid measures**  
 General advice Consult 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 and contact a physician.  
 Contact with eyes: Rinse thoroughly with plenty of water for at least 15 as a precaution and 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 For small (incipient) fires, use media such as alcohol foam, dry chemical, or carbon dioxides. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water 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** 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** Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surfaces

## 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 area. |
| 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.  |
| 6.3 | <b>Methods and materials for containment and clean up</b>                  | Contain spillage. Sweep up with broom and shovel. 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 and clothing. Avoid Inhalation of vapor or mist. Normal measures for preventive fire protection                                    |
| 7.2 | <b>Conditions for Safe storage</b>   | Keep container tightly closed in a cool, dry and well-ventilated place. Containers which are 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><br><b>Components with workplace control parameters</b><br>Contains no substances with occupational exposure limit values |   |
| 8.2 | <b>Exposure Controls</b><br>Appropriate Engineering Controls   | Avoid contact with skin, eyes and clothing.<br>Handle in accordance with good industrial hygiene and safety practices.<br>Wash hands immediately after handling the product; before breaks and at the end of the day.   |
|     | <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  | Wear appropriate 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, when handling this product. 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, 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 (US) or type ABEK (EN 14387) 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 governmental 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. 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 Colorless
b	Odor	Sweet, Coconut
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	No data available
f	Boiling Point	93-94°C
g	Flash Point	>100°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 at 25°C	0.954-0.962
n	Solubility	Soluble in water >0.1% Soluble in hexane >50%
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, Sparks
10.5	Incompatible materials	Strong oxidizing agents
10.6	Hazardous decomposition products	Formed under fire conditions – Carbon Oxides
10.7	Further Information	No data available

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

<b>Acute Toxicity</b>	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
<b>Carcinogenicity</b>	
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
Specific target organ toxicity-single exposure (GHS)	<b>Inhalation: May cause respiratory irritation</b>
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 effect	No data available
RTECS:	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	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)	No dangerous goods
IMDG	No dangerous goods
IATA	No 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
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# Safety Data Sheet

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

No SARA Hazards

Massachusetts Right to Know components

No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right to Know components

5-Butyldihydro-4-methylfuran-2(3H)-one CAS# 39212-23-2 Rev. Date:

New Jersey Right to Know components

5-Butyldihydro-4-methylfuran-2(3H)-one CAS# 39212-23-2 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 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.

Issued by:	Contact Person:
Aurochemicals	Deo N. Persaud
7 Nicoll Street	8/22/2022
Washingtonville, NY 10992 USA	