

# Safety Data Sheet

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product Name	Gamma Dodecalactone, Natural
Product Number	0240000
CAS-No.	2305-05-7

### 1.2 Product Recommended Use

Flavorings

### 1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992- USA
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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
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### 2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement  
Hazard Statement(s)

**WARNING**

H315	Causes skin irritation
H319	Causes serious 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	

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P312	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if
P321	present and easy to do. Continue rinsing.
P332+P313	Call a POISON CENTER or doctor/physician if you feel unwell.
P337+P313	If skin irritation occurs: Get medical advice/attention
P362	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 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

Synonyms	(±)-4-Dodecanolide (±)-γ-Octyl-γ-butyrolactone (±)-Dihydro-5-octyl-2(3H)-furanone
Formula	C <sub>12</sub> H <sub>22</sub> O <sub>2</sub>
Molecular Weight	198.3 g/mol
CAS-No	2305-05-7
EC-No.	218-971-6

### Hazardous Components

Component	Classification	Concentration
Methyl 2-Methylbutyrate	Skin irritation (2), H315 Eye irritation (2A), H319 Specific target organ toxicity-single exposure (3), Respiratory system H335	-

## 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

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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 breathing vapors. Mist or gas. Ensure adequate ventilation.
<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>	Contain spillage. Soak up with absorbent material. Wet Sweep up with broom and 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 vapor or mist. Normal measures for preventive fire protection.
<b>7.2 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.
<b>7.3 Specific End use(s)</b>	Flavorings

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>8.1 Control parameters</b>	Contains no substances with occupational exposure limit values.
<b>8.2 Exposure Controls</b>	
Appropriate Engineering Controls	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 conforming to EN 166. Use equipment for eye protection tested and approved under 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

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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.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a	Appearance	Liquid, Colorless
b	Odor	No data available
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	Melting Point: 17-18°C
f	Boiling Point	130-132°C
g	Flash Point	110°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	0.933-0.938
n	Solubility	1:1 in 95% 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
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## 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

#### Acute Toxicity

LD50-Oral	No data available
LC50-Inhalation	No data available
LD50-Dermal	No data available

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Skin corrosion/irritation  
Serious eye damage/eye irritation  
Respiratory or skin sensitization  
Germ Cell mutagenicity

Rabbit: Skin irritation – 24 hr  
No data available  
No data available  
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  
Teratogenicity  
Specific target organ toxicity-single exposure (GHS)  
Specific target organ toxicity-repeated exposures (GHS)  
Aspiration Hazards  
Signs and Symptoms of Exposure

No data available  
No data available  
Inhalation: May cause respiratory irritation  
No data available  
No data available  
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated  
No data available  
LU3600000

Synergistic effects  
RTECS:

## 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) Not dangerous goods  
IMDG Not dangerous goods  
IATA Not dangerous goods

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## 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		
Massachusetts Right to Know components	No components are subject to the Massachusetts Right to Know Act		
Pennsylvania Right to Know components	Dihydro-octylfuran-2(3H)-one	CAS# 2305-05-7	Rev. Date:
New Jersey Right to Know components	Dihydro-octylfuran-2(3H)-one	CAS# 2305-05-7	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
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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