

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers Product Name Product Number CAS-No.

Gamma Undecalactone (Aldehyde C-14), Natural 0309100 104-67-6

- 1.2 Product Recommended Use
- **1.3 Preparation Information** Company

Telephone Fax Aurochemicals 7 Nicoll Street Washingtonville, NY 10992 845-496-6065 845-496-6248

Flavorings

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 (Category 3) H335 Acute Aquatic toxicity (Category 3), H402 Chronic aquatic toxicity (Category 3) H412

### 2.2 GHS Label Elements, Including precautionary statements

Pictogram	(!)	
Signal Statement	Warning	
Hazard Statement(s)	H315 H319 H335 H412	Causes skin irritation Causes serious eye irritation May cause respiratory irritation Harmful to aquatic life with long lasting effects
Precautionary Statement(s)	P261 P264 P271 P273 P280	Avoid breathing dust/fume.gas/mist/vapors/spray Wash skin thoroughly after handling Use only outdoors or in a well-ventilated area Avoid release to the environment Wear protective gloves/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 for 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 approved waste disposal

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

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1	Substances		
	Synonyms	Undecanoic y-lactone Aldehyde C-14	
	Formula	C11H20O2	
	Molecular Weight	184.28 g/mol	
	CAS-No	104-67-6	
	EC-No.	203-225-4	
	Hazardous Components		
	Component	Classification	Concentration
	Undecan-4-olide	Skin irritation (2) H315	
		Eye irritation (2A) H319	
		STOT SE (3) H335	
		Aquatic Acute (3) H402	
		Aquatic Chronic (3) H412	
Sec	tion 4: FIRST AID MEASURES		
4.1	Description of first aid measures		
	General advice	Consult physician. Show this safety data sheet to the out of dangerous area.	doctor in attendance. Move
	Inhalation	Provide fresh air; keep at rest and at a comfortable p physician.	osition to breathe. Consult a
	Contact with skin:	Remove contaminated clothing. Rinse skin with cool and warm water and contact a physician.	water then wash with mild soap
	Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 a physician.	as a precaution and consult a
	Ingestion	DÓ NOT induce vomiting. Never give anything by m Rinse mouth with water. Consult a physician.	outh to an unconscious person.
	Clothing contamination:	Remove contaminated clothing and wash before reus	Se.
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	No data available
	attention and special treatment needed.	

#### 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	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: ACCIDENTIAL RELEASE MEASURES

6.1	Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe area.
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. Soak up with absorbent material. Sweep up with broom and shovel. 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	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.
7.2	Conditions for Safe storage	Keep container tightly closed in a dry and well-ventilated place. Containers which are
		opened must be carefully resealed and kept upright to prevent leakage.
7.3	Specific End use(s)	Flavorings

#### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters Components contain no substance with workplace control parameters

8.2	Exposure Controls Appropriate Engineering Controls	Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the day.
	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 safety glasses with side shields and face shield. NIOSH tested and approved.
	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	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 multipurpose 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 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

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	а	Appearance	Colorless to pale yellow viscous liquid
	b	Odor	Strong fruity, peach-like
	С	Odor Threshold	No data available
	d	рН	No data available
	е	Melting Point /Freezing Point	No data available
	f	Boiling Point	297°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
	Ι	Vapor density	No data available
	m	Relative density at 25°C	0.938-0948
	n	Solubility	1 mL is soluble in 5mL 60% alcohol, Soluble in alcohol, most fixed oils and propylene
			glycol, Insoluble in glycerol and water
	0	Partition coefficient: n-octanol/water	No data available
	р	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	Oth	ner 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	Vapors may form explosive mixture with air
10.4	Conditions to avoid	No data available
10.5	Incompatible materials	Strong oxidizing agents, Strong Bases
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	18,500 mg/kg Remarks: Behavioral: Somnolence (general depressed activity) Skin and Appendages: Other: Hair
	LC50-Inhalation LD50-Dermal Skin corrosion/irritation	No data available No data available Rabbit
	Serious eye damage/eye irritation Respiratory or skin sensitization Germ Cell mutagenicity	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	No data available
	Teratogenicity	No data available
	Specific target organ toxicity-single exposure (GHS)	Inhalation – May cause respiratory irritation
	Specific target organ toxicity-repeated	No data available
	exposures (GHS)	No data available
	Aspiration Hazards Potential Health effects	
	Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
	Synergistic effect RTECS:	No data available YQ2485000
Secti	on 12: ECOLOGICAL INFORMAT	ION
12.1	<b>Toxicity</b> Toxicity to Fish	LC50 Oncorhynchus mykiss (rainbow trout) – 569 mg/l -96 h
	Toxicity to daphnia and other aquatic invertebrates	EC50- Daphnia magna (Water flea) 17.0 mg/l – 48 h
12.2	Persistence and degradability	No data available
4.1.2		

 Mobility in soil
 No data available

 Results of PBT and vPvB assessment
 PBT/vPvB assessment not available as chemical safety assessment not required /

No data available

Bioaccumulative potential

12.3

12.4

12.5





12.6	Other adv	erse effects	not conducted An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. <b>Harmful to aquatic life with long lasting effects.</b>					
Secti	on 13:	DISPOSAL CONSIDERATI	ONS					
13.1	<b>Disposal r</b> Product: Packaging	nethods	According to local regul According to local regul					
Section 14: TRANSPORT INFORMA			ION					
	DOT (US) IMDG IATA		Not dangerous goods Not dangerous goods Not dangerous goods					
Secti	on 15:	REGULATORY INFORMA	TION					
	Reach No.		A registration number is not available for this substance as its uses are exempted from registration, the annual tonnage nod 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. 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 313	Components						
	SARA 311/	/312 Hazards	Acute health hazard.					
		setts Right to Know	No components are subject to the Massachusetts Right to Know Act					
	component Pennsylvar	ts nia Right to Know components	Undecan-4-olide	CAS# 104-67-6	Rev. Date:			
	New Jerse	y Right to Know components	Undecan-4-olide	CAS# 104-67-6	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 RatingHealth hazard2Chronic Health HazardFlammability1Physical Hazard0

### **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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