

HEALTH	0
FLAMMABILITY	1
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	Ionone Beta, Natural
Product Number	0259500
CAS-No.	14901-07-6

1.2 Product Recommended Use

Flavorings

1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street 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):
Acute aquatic toxicity (Category 2) H401

2.2 GHS Label Elements, Including precautionary statements

Pictogram	None
Signal Statement	None
Hazard Statement(s)	H401 Toxic to Aquatic Life
Precautionary Statement(s)	P273 Avoid release to the environment 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-(2,6,6-Trimethyl-1-cyclohexenyl)-3-buten-2-one
Formula	C ₁₃ H ₂₀ O
Molecular Weight	192.3 g/mol

CAS-No 14901-07-6
EC-No. 201-224-3

**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 a physician. Show this safety data sheet to the doctor in attendance.
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. Contact a physician.
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 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	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.
5.4 Further information	No data available

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.
6.2 Environment precautions	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 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** See section 2.2
- 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. Recommended storage temperature: 2-8°C
- 7.3 Specific End use(s)** Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
Components with workplace control parameters
 Contains no substances with occupational exposure limits
- 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 conforming to EN 166. 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 Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. 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 and discharge to the environment must be avoided.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a	Appearance	Colorless to pale yellow straw colored liquid
b	Odor	Violet like
c	Odor Threshold	No data available
d	pH	7
e	Melting Point /Freezing Point	-35°C at 1,013 hPa
f	Boiling Point	239°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	Ca. 0.072 hPa at 25°C
l	Vapor density	No data available
m	Relative density at 25°C	0.940-0.950
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	11.2 mm ² /s at 20°C
s	Explosive properties	No data available
t	Oxidizing properties	No data available

9.2 Other Safety Information Surface tension: 39.52 mN/m at 20°C

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	No data available
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-Rat	7,120 mg/kg
LC50-Inhalation	No data available
LD50-Dermal-Rat (M/F)	>2,000 mg/kg

Skin corrosion/irritation	Rabbit: No skin irritation 4 h (OECD Test Guideline 404)
Serious eye damage/eye irritation	Rabbit: No eye irritation 72 h (OECD Test Guideline 405)
Respiratory or skin sensitization	Guinea Pig: Does not cause skin sensitisation (OECD Test Guideline 406)

Germ Cell mutagenicity	Ames test: <i>S. typhimurium</i> Results: Negative Directive 37/548/EEC – Annex V.B.12 Mouse-Male. Result: Negative
Carcinogenicity	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
Reproductive toxicity	Hamster: Oral Effects on fertility: Post implantation mortality (e.g., dead and or/resorbed implants per total number of implants)
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
Additional Information	Repeated dose toxicity – Rat-Female-Oral: No observed adverse effect level -83 mg/kg Lowest observed adverse effect level -801 mg/kg
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:	EN0500000

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

To Fish:
LC50- *Pimephales promelas* (fathead minnow) 5.09 mg/l 96 hr

To Daphnia and other aquatic invertebrates
EC50-Static Test – *Daphnia magna* (water flea) 4.03 48h
(OECD Test Guideline 202)

To Algae
EC50-Static Test- *Desmodesmus subspicatus* (green algae) 22.15 mg/l 72 h

To Bacteria
EC50- Respiration Inhibition – Sludge Treatment 100-200 mg/l 180m
(OECD Test Guideline 209)

12.2 Persistence and degradability	Biodegradability Aerobic – Exposure time 28 d Result: 70-80% Readily biodegradable
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	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

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

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 does 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	No SARA Hazards
Massachusetts Right to Know components	No components are subject to the Massachusetts Right to Know Act
Pennsylvania Right to Know components	(E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one CAS# 79-77-6 Rev. Date:
New Jersey Right to Know components	(E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one CAS# 79-77-6 Rev. Date:

Safety Data Sheet

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 0
 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.

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