

HEALTH	0
FLAMMABILITY	2
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	L-Fenchone, Natural
Product Number	4519
CAS-No.	7787-20-4

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)	Flammable Liquid (Category 3) H226
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2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement

Warning

Hazard Statement(s)

H226

Flammable liquid and vapor

Precautionary Statement(s)

PREVENTION

P210	Keep away from flames and 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
P280	Wear protective gloves/protective clothing/face protection

RESPONSEP303+ P361+
P353

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water shower

P370+P378

In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction

STORAGE

P403+P235

Store in a well ventilated place. Keep cool

DISPOSAL

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**

Synonym

(1)-1,3,3-Trimethyl-2-norbornanone
(1R)-1,3,3-Trimethylbicyclo[2.2]heptan-2-one

Formula

C₁₀H₁₆O

Molecular Weight

152.23 g/mol

CAS-No.

7787-20-4

EC-No.

232-107-5

Hazardous Components

Component	Classification	Concentration
(1R)-1,3,3-Trimethylbicyclo[2.2]heptan-2-one	Flammable Liquid (3) H226	<= 100%

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

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Consult a physician.

Contact with skin:

Remove contaminated clothing. Rinse skin with cool water for several minutes, then wash with mild soap and warm water. Consult a physician

Contact with eyes:

Remove contact lenses if present and easy to do. Flush opened 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** The most important known symptoms and effects are described in the labeling section (2.2 and 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 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. Do not breathe fumes. Cool endangered receptacles with water spray. Do not let fire fighting water enter sewage system
- 5.4 Further information** Use water spray to cool unopened containers.

Section 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures** Avoid contact with skin and eyes. Avoid breathing vapors, mist or gas. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas
- 6.2 Environment precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge to the environment must be avoided
- 6.3 Methods and materials for containment and clean up** Collect spillage with absorbent material and pick up with shovel. Keep in suitable closed container for hazardous waste 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 breathing vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.
- 7.2 Conditions for Safe storage** Keep container tightly closed in a dry, cool and well-ventilated place. Handle container with care. 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

Contains no substances with occupational exposure limit values

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 workday. Explosion proof ventilation equipment to stay below exposure limits.

Personal protective equipment

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.

Eye/face protection Face shield and safety glasses. 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 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 Body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substances at the specific work place.

Respiratory protection Where risk assessment shows air purifying respirators are appropriate, use a full face respirator with multi- purpose combination respirator cartridges (US) or type ABEK (EN 14387) 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) of CEN (EU).

Control of environmental exposure Prevent further 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	Colorless to pale yellow liquid
b	Odor	Camphor-like, pine, fennel
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	Not available
f	Boiling Point	192-194°C
g	Flash Point	52°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	0.941-0.946
n	Solubility	Insoluble in water, soluble in propylene glycol, ethanol, vegetable oils
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, strong bases
10.6	Hazardous decomposition products	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

Acute Toxicity

LD50 Oral - Rat – female	> 2,000 mg/kg
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	Irritant to skin and mucous membranes
Respiratory or skin sensitization	Irritating effect
Germ Cell mutagenicity	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 This product is not expected to cause reproductive or developmental effects

Specific target organ toxicity-single exposure (GHS) Not classified

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 RTECS:	No data available 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)	UN Number: 1224; Class 3; Packing Group III
Proper Shipping Name:	Ketones, Liquid, n.o.s. (1,3,3-Trimethylnorbornan-2-one)
Marine Pollutant:	No
Poison Inhalation Hazard:	No
IMDG	UN Number: 1224; Class 3; Packing Group III EMS-No: F-E, S-D
Proper Shipping Name:	Ketones, Liquid, n.o.s. (1,3,3-Trimethylnorbornan-2-one)
Marine Pollutant:	No
IATA	UN Number: 1224; Class 3; Packing Group III
Proper Shipping Name:	Ketones, Liquid, n.o.s. (1,3,3-Trimethylnorbornan-2-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

Safety Data Sheet

313.

SARA 311/312 Hazards

Fire Hazard

Massachusetts Right to Know
components

No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right to Know components

1,3,3-Trimethylnorbornan-2-one CAS #: 7787-20-4 Revision Date:

New Jersey Right to Know components

1,3,3-Trimethylnorbornan-2-one CAS #: 7787-20-4 Revision Date:

California Prop. 65 components

This product does not contain any chemical known to the 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 2
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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