HEALTH	2
FLAMMABILITY	3
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	**Methyl Heptenone (6-Methyl-5-Hepten-2-one), Natural**
Product Number	0270700
CAS-No.	110-93-0

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)

Flammable Liquids (Category 3)
Acute aquatic toxicity (Category 3)
Chronic aquatic toxicity (Category 3)

2.2 GHS Label Elements, Including precautionary statements

Pictogram

Signal Statement **Warning**

Hazard Statement(s)

H226	Flammable liquid and vapor
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

Precautionary Statement(s)

P210	Keep away from heat/sparks/open flames/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/eye protection/face protection
P303+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
P403+P235	Store in a well ventilated place. Keep cool
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

Chemical characterization	Natural Product
Synonyms	Methyl Heptenone 5-Hepten-2-one
Formula	$C_8H_{14}O$
Molecular Weight	126.2 g/mol
CAS-No	110-93-0
EC-No.	203-816-7

Hazardous Components

Component	Classification	Concentration
6-Methylhept-5-en-2-one	Flammable Liquids (3) H226 Aquatic Acute Toxicity (3) H402 Chronic Aquatic Toxicity (3) H412	90-100%

Section 5: FIREFIGHTING 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 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 See section 2.2 and or section 11

both acute and delayed

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. Emits toxic fumes under fire conditions
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**	Use personal protective equipment. Avoid breathing vapors. Mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Evacuate personnel to safe areas.
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**	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 inhalation of 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 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 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

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, made of flame retardant antistatic material 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 government standards such as NIOSH (US) or CN (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, Clear Color: Colorless slightly yellow liquid
b	Odor	Citrus-like odor and bittersweet taste reminiscent of pear
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	-67oC
f	Boiling Point	73°C
g	Flash Point	57oC closed cup
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	Upper explosion limit: 7.3% (V) Lower explosion limit: 1.1% (V)
k	Vapor pressure	8 hPa at 50oC 1 hPa at 20oC 1,120 hPa at 170oC
l	Vapor density	No data available
m	Relative density at 25oC	0.850-0.870
n	Solubility	Insoluble in water; Soluble in oils and organic solvents; miscible in ethanol.
o	Partition coefficient: n-octanol/water	Log Pow: 2.4 at 25^{oC}
p	Auto-ignition Temp.	No data available
q	Decomposition Temp,	>170^{oC}
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**	Oxidizing agents, Strong Reducing 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	3,500 mg/kg
LC50-Inhalation	No data available

LD50-Dermal-Rabbit		>5,000 mg/kg
Skin corrosion/irritation		Rabbit: No skin irritation
Serious eye damage/eye irritation		Rabbit: No eye irritation
Respiratory or skin sensitization		No data available
Germ Cell mutagenicity		S. typhimurium Results: negative Histidine reversion (Ames)
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)		No data available
Specific target organ toxicity-repeated exposures (GHS)		No data available
Aspiration Hazards		No data available
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		No data available
RTECS:		MJ9700000

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

To Fish:	LC50- Pimephales promelas (fathead minnow) 85.7 mg/l 96h
To daphnia and other aquatic invertebrates	EC50- Daphnia magna (Water Flea) 129 mg/l 48 h
To Algae	IC50-Desmodesmus subspicatus (green algae) 191 mg/l 72 h

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**	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful 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)	UN1224 Class: 3 Packing Group: III
Proper shipping name:	Ketones, n.o.s. (6-Methylhept-5-en-2-one)
Marine Pollutant:	No
Poison Inhalation Hazard:	No
IMDG	UN1224 Class: 3 Packing Group: III EMS-No: F-E, S-D
Proper shipping name:	KETONES, N.O.S. (6-Methylhept-5-en-2-one)
Marine Pollutant:	No
IATA	UN1224 Class: 3 Packing Group: III
Proper shipping name:	Ketones, n.o.s. (6-Methylhept-5-en-2-one)

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 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
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	Fire Hazard

Massachusetts Right to Know components	No components are subject to the Massachusetts Right to Know Act		
Pennsylvania Right to Know components	6-Methylhept-5-en-2-one	CAS# 110-93-0	Rev. Date:
New Jersey Right to Know components	6-Methylhept-5-en-2-one	CAS# 110-93-0	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 3
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	8/16/2022
Washingtonville, NY 10992 USA	