Safety Data Sheet

The Natural Choice for Flavor and Fragrance Ingredients

HEALTH	0
FLAMMABILITY	2
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	**Mercaptobutanone 5% in EtOH, Natural**
Product Number	**0329805**
CAS-No.	**40789-98-8**

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), H226
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)

H226 Flammable liquid and vapor
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
P273 Avoid release to the environment
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
P403+P235 In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction
P501 Store in a well ventilated place. Keep cool

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	6-Methyl-5-hepten-2-one Methyl (6) 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 (Category 3), H226 Acute aquatic toxicity (Category 3), H402 Chronic aquatic toxicity (Category 3), H412	-

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	Consult 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 and 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 — 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

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. Remove all sources of ignition. Evacuate personnel to safe area. 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 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. Keep away from sources of ignition-No Smoking. Take measures to prevent the build-up of electrostatic charge.
7.2	**Conditions for Safe storage**	Store in a cool place. 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 with workplace control parameters: Contains no substances with occupational exposure limit values

8.2 Exposure Controls

Appropriate Engineering Controls	Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practices. Wash hands immediately after handling the product; 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. 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, Butyl rubber gloves, 0.3 mm, 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	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 governmental 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.

Discharge into the environment must be avoided.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a	Appearance	Colorless to slightly yellow liquid
b	Odor	Eggy, roasted, meaty, dairy
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	Melting point: -67°C
f	Boiling Point	78°C
g	Flash Point	18°C
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 50°C, 1 hPa at 20°C, 1,200 hPa at 170°C
l	Vapor density	No data available
m	Relative density at 25°C	0.945-0.965
n	Solubility	Soluble in water an most organic solvents
o	Partition coefficient: n-octanol/water	Log Pow: 2.4 at 25°C
p	Auto-ignition Temp.	No data available
q	Decomposition Temp.	>170°C
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, Sparks
10.5	**Incompatible materials**	Strong oxidizing agents, Strong reducing agents, Strong base
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 Result: 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
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
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 Daphnia and other aquatic invertebrates –
EC50 – Daphnia magna (Water Flea) – 129 mg/l 48 h
To Fish-
LC50- Pimephales promelas (fathead minnow) 85.7 mg/l - 96h
To Algae
IC50-Desmodesmus subspicatus (green algae) – 191 mg/l - 72h

12.2	**Persistence and degradability**	Biodegradability: Biotic/Aerobic
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)	**UN-Number: 1224 Class: 3 Packing Group: III**
Proper shipping name:	Ketones, liquid n.o.s. (6-Methylhept-5-en-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. (6-Methylhept-5-en-2-one)**
Marine Pollutant:	No
IATA	UN-Number: 1224 Class: 3 Packing Group: III
Proper shipping name	Ketones, liquid n.o.s. (6-Methylhept-5-en-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 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	1
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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