

HEALTH 1 FLAMMABILITY 2 REACTIVITY 0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name 2-Heptanone (Methyl Amyl Ketone), Natural

Product Number **0254400** CAS-No. **110-43-0**

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), H226 Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 4), H332

2.2 GHS Label Elements, Including precautionary statements

Pictogram

Signal Statement WARNING

Hazard Statement(s)

H226 Flammable liquid and vapor
H302+H332 Harmful if swallowed or inhaled

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 P261 Avoid breathing dust/fume/gas/mist/vapors/spray

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P264	Wash skin	thoroughly	after handling
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P270 Do not eat, drink or smoke when using this product P271 Use only outdoors or in a well ventilated area

P280 Wear protective gloves/protective clothing/eye protection/face protection

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P303+P361+P353 IF IN SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable

for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell

P330 Rinse mouth

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

Synonyms Methyl Pentyl ketone

Formula C₇H₁₄O

Molecular Weight 114.19 g/mol

CAS-No 110-43-0

EC-No. 203-767-1

Index No, 606-024-00-3

Hazardous Components

Component	Classification	Concentration
Heptan-2-one	Flammable liquids (3), H226	90-100%
	Acute toxicity, Oral (4), H302	
	Acute toxicity, Inhalation (4), H332	

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 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 minutes as a precaution. Consult

a physician.

Ingestion DO NOT induce vomiting. Never give anything by mouth to an unconscious person.

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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. 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. Remove all sources of ignition. Evacuate personnel to safe areas.

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. Discharge into the environment must be avoided.

6.3 Methods and materials for containment

and clean up

Contain spillage. Wet Sweep up with broom and 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 buildup of electrostatic

charge.

7.2 Conditions for Safe storage Keep container tightly closed in a dry, cool and well-ventilated place. Containers which

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have been 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

CHEMICALS The Natural Choice for Flavor and Fragrance Ingredients

Safety Data Sheet

Component	CAS-No.	Value	Control Parameters	Basis	
Heptan-2-one	110-43-0	TWA	50 ppm	USA. ACGIH Threshold Limit Values (TLV)	
	Remarks: Skin and eye irritation				
		TWA	100 ppm	USA. Occupational Exposure Limits (OSHA) – Table	
			465 mg/m3	Z-1 Limits for Air Contaminates	
	The value in mg/m3 is approximate				
		TWA	100 ppm USA. OSHA – Table Z-1 Limits for Air Contam 465 mg/m3 – 1910.1000		
		TWA	100 ppm 465 mg/m3	USA. NIOSH Recommended Exposure Limits	

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.

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 Butyl rubber gloves, 0.3mm. 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
Complete suit 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 (U) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full faced supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as

NIOSH (U) or CEN (EU).

Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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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 liquid
 b Odor Fruity, pineapple-like
 c Odor Threshold No data available
 d pH No data available

e Melting Point /Freezing Point Melting Point: -35°C

f Boiling Point 149-151°C

Vapor pressure

Vapor density



g Flash Point 49°C closed cup h Evaporation Rate No data available i Flammability (Solid, Gas) No data available

Upper/lower Flammability Limit Upper explosion limit: 7.9% (V)
Lower explosion limit: 1.11% (V)

2.85 hPa at 20°C 3.94 (Air=1.0)

m Relative density @25°C 0.82

n Solubility Water soluble: 4.21 g/l at 20°C, soluble in most organic solvents

o Partition coefficient: n-octanol/water p Auto-ignition Temp. 358°C at 99.63 hPa 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 Surface tension: 26.17 mN/m at 25°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 Heat, Flames and Sparks

10.5 Incompatible materials Strong oxidizing agents, Strong reducing agents, Strong bases

10.6 Hazardous decomposition products10.7 Further InformationNo data availableNo data available

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

LD50-Oral- Rat 1,600 mg/kg

LC50-Inhalation- Rat (m/f) >16.7 mg/l 4 hr

(OECD Test Guideline 403)

LD50-Dermal-Rat (m/f) >5,000 mg/kg

(OECD Test Guideline 402)

Skin corrosion/irritation Rabbit – Mild skin irritation - 4hr

(OECD Test Guideline 404)

Serious eye damage/eye irritation Rabbit: Mild eye irritation

(OECD Test Guideline 405)

Respiratory or skin sensitization Mouse: Did not cause sensitisation on laboratory animals

(OECD Test Guideline 429)

Germ Cell mutagenicity In Vitro Assay; Lymphocyte:

Result: Negative

Rat-Female - Result: Negative

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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

Teratogenicity
Specific target organ toxicity-single

exposure (GHS)

No data available No data available No data available

Specific target organ toxicity-repeated

exposures (GHS) Aspiration Hazards No data available

No data available

Signs and Symptoms of Exposure

Stomach Irregularities - Based on Human Evidence

Central Nervous system depression

To the best of our knowledge, the chemical, physical, and toxicological

properties have not been thoroughly investigated

Synergistic effects No data available

RTECS: MJ5075000

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity To Fish:

LC50- Pimephales promelas (fathead minnow) 126-137 mg/l -96 hr

To daphnia and other aquatic invertebrates

EC50-Static test: Pseudokirchneriella subcapitata (Selenastrum

capricornutum) 98.2 mg/l 72 hr (OECD Test Guideline 201)

12.2 Persistence and degradability Biodegradability: Aerobic: Exposure time 28 d

Result: 69% - Readily biodegradable

(OECD Test Guideline 310) Ration BOD/ThBOD: 1.77%

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

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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: 1110 Class: 3 Packing Group III

Proper Shipping Name n-Amyl methyl ketone

Reportable Quantity (RQ) No Marine pollutant No Poison Inhalation Hazard No

IMDG UN Number: 1110 Class: 3 Packing Group III EMS-No: F-E, S-D

Proper Shipping Name n-AMYL METHYL KETONE

Marine Pollutant No.

IATA UN Number: 1110 Class: 3 Packing Group III

Proper Shipping Name n-Amyl methyl ketone

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, Acute Health Hazard

Massachusetts Right to Know Heptan-2-one CAS# 110-43-0 Rev. Date: 4/1/1994

components

Pennsylvania Right to Know components Heptan-2-one CAS# 110-43-0 Rev. Date: 4/1/1994

New Jersey Right to Know components Heptan-2-one CAS# 110-43-0 Rev. Date: 4/1/1994

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.

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Safety Data Sheet



Section 16: OTHER INFORMATION

HMIS Rating

Health hazard 1
Chronic Health Hazard*
Flammability 2
Reactive 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			Revised Date:	8/3/2022
Washingtonville, NY 10992 USA				

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