

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	Heptanol (Heptyl Alcohol) , Natural
Product Number	0254800
CAS-No.	111-70-6

1.2 Product Recommended Use

Flavorings

1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992
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 4), H227

Eye irritation (Category 2A), H319

Acute aquatic toxicity (Category 3), H402

2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement Warning

Hazard Statement(s)

H227 Combustible liquid
H319 Causes serious eye irritation
H402 Harmful to aquatic life

2.3 HNOC (Hazards not otherwise classified or not covered by GHS - None

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	1-Heptanol Heptyl alcohol C-7 alcohol
Formula	C ₇ H ₁₆ O
Molecular Weight	116.2 g/mol

CAS-No 111-70-6
EC-No. 203-897-9

Hazardous Components

Component	Classification	Concentration
Heptan-1-ol	Flammable liquids (Category 4), H227 Eye irritation (Category 2A), H319 Acute aquatic toxicity (Category 3), H402	90-100%

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 and consult a physician.
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. 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 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. 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. |
| 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 work 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, Nitrile rubber gloves, 0.4mm 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

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|---|-------------------------------|-------------------------------------|
| a | Appearance | Colorless liquid |
| b | Odor | Fragrant, woody, heavy, oily, fatty |
| c | Odor Threshold | No data available |
| d | pH | No data available |
| e | Melting Point /Freezing Point | -36°C |
| f | Boiling Point | 175°C |

g	Flash Point	70°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	0.7 hPa at 20°C (Tested according to Annex V of Directive 67/548/EEC) 1 hPa at 25°C (Tested according to Annex V of Directive 67/548/EEC)
l	Vapor density	No data available
m	Relative density at 25°C	0.815-0.825
n	Solubility	Slightly soluble in water, miscible in alcohol and most fixed oils, 1:2 in 60% alcohol gives clear solution 1mL in 175 mL water (OECD Test Guideline 105)
o	Partition coefficient: n-octanol/water	Log Pow: 2.2 at 20°C (OECD Test Guideline 107)
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

Surface tension: 41 mN/m at 19.3°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, Acid chlorides, Acid anhydrides
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 M/F	5,500 mg/kg (OECD Test Guideline 401)
LC50-Inhalation-Rat	>7.4 mg/l 4 h (OECD Test Guideline 403)
LD50-Dermal-Rabbit	>2,000 mg/kg (OECD Test Guideline 402)
Skin corrosion/irritation	Rabbit: Non Skin irritation - 24 h (OECD Test Guideline 404)
Serious eye damage/eye irritation	Rabbit: Irritating to eyes - 24 h (OECD Test Guideline 405)
Respiratory or skin sensitization	Guinea Pig: Did not cause sensitisation on laboratory animals (OECD Test Guideline 406)
Germ Cell mutagenicity	S. typhimurium Results: Negative

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:	MK350000

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity	To Fish: LC50- Static Test – Pimephales promelas (fathead minnow) 37.9 mg/l 96 h To Daphnia and other aquatic invertebrates: EC50- Immobilization- Daphnia magna (Water Flea) -84 mg/l 48 h
12.2 Persistence and degradability	Biodegradability: Aerobic – Exposure time 28 d Result: 84% - Readily biodegradable (OECD Test Guideline 301)
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)	NA-Number: 1993 Class: None Packing Group: III
Proper shipping name:	Combustible Liquid, n.o.s. (Heptan-1-ol)
Reportable Quantity (RQ):	No
Marine Pollutant:	No
Poison Inhalation Hazard:	No
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 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, Acute health hazard		
Massachusetts Right to Know components	No components are subject to the Massachusetts Right to Know Act		
Pennsylvania Right to Know components	Heptan-1-ol	CAS# 111-70-6	Rev. Date:
New Jersey Right to Know components	Heptan-1-ol	CAS# 111-70-6	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	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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