

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product Name	Hexyl Alcohol (n-Hexanol) (Alcohol C-6), Natural
Product Number	0256700
CAS-No.	111-27-3

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 liquids (Category 3), H226 Acute toxicity, Oral (Category 4), H302 Acute toxicity, Dermal (Category 4), H312 Eye irritation (Category 2A), H315 Acute aquatic toxicity (Category 3), H402
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### 2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement

Warning

Hazard Statement(s)

H226	Flammable liquid and vapor
H302+H312	Harmful if swallowed or in contact with skin
H319	Causes serious eye irritation
H402	Harmful to aquatic life

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
P264	Wash skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P273	Avoid release to the environment
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 ON SKIN (or hair): Remove/Take off immediately contaminate clothing. Rinse skin with water/shower
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P322	Rinse mouth
P337+P313	If eye irritation persists: Get medical advice/attention
P363	Wash contaminated clothing before reuse
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction
P403+P235	Store in a well ventilated area. 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

Synonym(s)	Hexyl Alcohol 1-Hexanol C6 Alcohol Alcohol C-6
Formula	C <sub>6</sub> H <sub>14</sub> O
Molecular Weight	102.18 g/mol
CAS-No	111-27-3
EC-No.	203-852-3
Index No.	603-059-00-6

#### Hazardous Components

Component	Classification	Concentration
Hexan-1-ol	Flammable liquids (3), H226 Acute toxicity, Oral (4), H302 Acute toxicity, Dermal (4), H312 Eye irritation (2A), H315 Acute aquatic toxicity (3), H402	90-100%

### 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	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. Rinse mouth with water. Consult a physician.
Clothing contamination:	Remove contaminated clothing and wash before reuse.
<b>4.2 Most important symptoms and effects both acute and delayed</b>	See section 2.2 and or section 11
<b>4.3 Indication of any immediate medical attention and special treatment needed.</b>	No data available

## Section 5: FIREFIGHTING MEASURES

<b>5.1 Extinguishing Media</b> Suitable Extinguishing Media	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide
<b>5.2 Special hazards arising from the substance or mixture</b>	Formed under fire conditions: Carbon oxides
<b>5.3 Advice for fire fighters</b>	Wear self contained breathing apparatus for firefighting if necessary. Emits toxic fumes under fire conditions.
<b>5.4 Further information</b>	Use water spray to cool unopened containers.

## Section 6: ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	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.
<b>6.2 Environment precautions</b>	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.
<b>6.3 Methods and materials for containment and clean up</b>	Contain spillage. Absorb spill with absorbent material, wet sweep up with broom and place in a suitable, closed container for disposal.
<b>6.4 Specific end use(s)</b>	Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

## Section 7: HANDLING AND STORAGE

<b>7.1 Precautions for safe handling</b>	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.
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7.2 **Conditions for Safe storage** Keep container tightly closed in a dry, cool and well-ventilated place. Containers which 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

Component	CAS No	Value	Control Parameters	Basis
Hexan-1-ol	111-27-3	TWA	40 ppm	USA. Workplace Environmental Exposure Levels (WEEL)
Remarks:		Eye Irritation		

### 8.2 Exposure Controls

**Appropriate Engineering Controls** Provide adequate general and local exhaust ventilation. 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** 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, 0.11mm. 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 of flame retardant anti-static material 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. 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 pale yellow liquid
b	Odor	Green, woody
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	Melting Point: -52°C
f	Boiling Point	157°C at 1,013 hPa
g	Flash Point	60°C closed cup
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	Lower explosion limit: 1.3% (V)
k	Vapor pressure	1.00 hPa at 20°C, 1 hPa at 25.6°C
l	Vapor density	3.53 (Air=1.0)
m	Relative density @25°C	0.814-0.824
n	Solubility	Miscible in alcohol, ether, and water
o	Partition coefficient: n-octanol/water	log Pow: 1.82
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	<b>Possibility of Hazardous reactions</b>	No data available
10.4	<b>Conditions to avoid</b>	Heat, Flames and Sparks
10.5	<b>Incompatible materials</b>	Strong oxidizing agents, Strong acids
10.6	<b>Hazardous decomposition products</b>	No data available
10.7	<b>Further Information</b>	No data available

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute Toxicity

LD50-Oral -Rat

720 mg/kg

Remarks: Liver: Fatty liver degeneration. Kidney, Ureter, Bladder: Other changes. Blood: Other changes

LC50-Inhalation

No data available

LD50-Dermal –Rabbit-Male

1,500 mg/kg

Skin corrosion/irritation

Rabbit – Mild skin irritation

Serious eye damage/eye irritation

Rabbit- Irritating to eyes

Respiratory or skin sensitization

No data available

Germ Cell mutagenicity

Result: Not mutagenic in Ames Test  
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)

Acute dermal toxicity- Diarrhea , loss of reflexes, Coma, Rapid respiration

Specific target organ toxicity-repeated exposures (GHS)

No data available

Aspiration Hazards	No data available
Signs and Symptoms of Exposure	Dermatitis, Nausea, Dizziness, Headache, Narcosis Stomach-irregularities-Based on Human Evidence  To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
Synergistic effects	No data available
RTECS:	MQ4025000

## Section 12: ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	<u>To Fish:</u> LC50-Pimephales promelas (fathead minnow) 97.7 mg/l - 96 hr  <u>To Daphnia and other aquatic invertebrates:</u> EC50-Daphnia magna (Water flea) >100 mg/l 24 hr
<b>12.2 Persistence and degradability</b>	Biodegradability – Result: >70% Readily biodegradable
<b>12.3 Bioaccumulative potential</b>	Oncorhynchus mykiss (rainbow trout) – 24 hr -39,800 µg/l Bioconcentration factor (BCF): 0.5
<b>12.4 Mobility in soil</b>	No data available
<b>12.5 Results of PBT and vPvB assessment</b>	PBT/vPvB assessment not available as chemical safety assessment not required / not conducted
<b>12.6 Other adverse effects</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

## Section 13: DISPOSAL CONSIDERATIONS

<b>13.1 Disposal methods</b>	
Product:	According to local regulations
Packaging	According to local regulations

## Section 14: TRANSPORT INFORMATION

<b>DOT (US)</b>	UN Number 2282 Class 3 Packing Group III
Proper Shipping Name	Hexanols
Reportable Quantity (RQ)	No
Marine Pollutant	No
Poison Inhalation Hazard	No
<b>IMDG</b>	UN Number 2282 Class 3 Packing Group III EMS-No: F-E, S-D
Proper Shipping Name	Hexanols



# Safety Data Sheet

Marine Pollutant

No

**IATA**

Proper Shipping Name

UN Number 2282 Class 3 Packing Group III  
Hexanols

## 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. Chronic Health Hazard

Massachusetts Right to Know components

No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right to Know components

Hexan-1-ol CAS# 111-27-3 Rev. Date: 3/1/2007

New Jersey Right to Know components

Hexan-1-ol CAS# 111-27-3 Rev. Date: 3/1/2007

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

**HMS 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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