

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	Pentanol (Amyl Alcohol), Natural
Product Number	0205600
CAS-No.	71-41-0

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, Inhalation (Category 4), H332
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Specific target organ toxicity-single exposure (Category 3), Respiratory System, H335

2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement

Warning

Hazard Statement(s)

H226 Flammable liquid and vapor
H315 Causes skin irritation
H319 Causes serious eye irritation
H332 Harmful if swallowed
H335 May cause respiratory irritation

Precautionary

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking

Statement(s)	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
	P254 Wash skin thoroughly after handling
	P271 Use only outdoors or in a well ventilated area
	P280 Wear protective gloves/protective clothing/eye protection/face protection
	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
P303+P361+P353	Rinse skin with water/shower
	IF INHALED: Remove victim to fresh air and keep at rest in a position
P304+P340	comfortable for breathing
	IF IN EYES: Rinse cautiously with water for several minutes, Remove contact
P305+P351+P338	lenses, if present and easy to do. Continue rinsing.
	Call a POISON CENTR or doctor/physician if you feel unwell
	P312 If skin irritation occurs: Get medical advice/attention
P332+P313	If eye irritation persists: Get medical advice/attention
P337+P313	Take off contaminated clothing and wash before reuse
	P362 In case of fire: Use dry sand, dry chemical or alcohol resistant foam for
P370+P378	extinction
	Store in a well ventilated place. Keep container tightly closed
P403+P233	Keep cool
	P235 Store locked up
	P405 Dispose of contents/container to an approved waste disposal plant
	P501

2.3 HNOC (Hazards not otherwise classified or not covered by GHS –Lachrymator

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	1-Pentanol n-Amyl alcohol Pentyl alcohol C5 Alcohol
Formula	C ₅ H ₁₂ O
Molecular Weight	88.15 g/mol
CAS-No	71-41-0
EC-No.	200-752-1
Index No.	603-200-00-1

Hazardous Components

Component	Classification	Concentration
Pentan-1-ol	Flammable liquids (Category 3), H226 Acute toxicity, Inhalation (Category 4), H332 Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Specific target organ toxicity-single exposure (Category 3), Respiratory System, H335	-

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 or carbon dioxide. For larger fires, apply water from as far as possible. Use very large quantities of water (flooding) 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
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 – No Smoking. Take measures to prevent the buildup of electrostatic charge. Normal measures for preventive fire protection.
- 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 with workplace control parameters

Component	CAS-No.	Value	Control Parameters	Basis
Pentan-1-ol	71-41-0	TWA	100 ppm	USA. Workplace Environmental Exposure Levels (WEEL)

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 tightly fitting safety glasses with face shield (8 in min). 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, 0.2mm 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	Liquid Colorless to pale yellow
b	Odor	Characteristic fusel like, sweet, pleasant
c	Odor Threshold	No data available
d	pH	7
e	Melting Point /Freezing Point	-78°C
f	Boiling Point	136-138°C
g	Flash Point	43°C closed cup
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	Upper explosion limit: 10.0% (V) Lower explosion limit: 1.2% (V)
k	Vapor pressure	2.0 hPa at 20°C
l	Vapor density	3.04 (Air = 1.0)
m	Relative density at 25°C	0.810-0.816
n	Solubility	Miscible with alcohol
o	Partition coefficient: n-octanol/water	log Pow: 1.51
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	Possibility of Hazardous reactions	No data available
10.4	Conditions to avoid	Heat, flames and sparks
10.5	Incompatible materials	Strong oxidizing agents, Strong acids, Alkali metals, Halides, Aldehydes
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-Mouse 200 mg/kg
Remarks: Behavioral: General anesthetic

LC50-Inhalation No data available

LD50-Dermal-Rabbit 2,306 mg/kg
Remarks: Liver: Other changes. Kidney, Ureter, Bladder: Other changes

Skin corrosion/irritation Results:
Rabbit: Skin irritation - 24 h

Serious eye damage/eye irritation No data available

Respiratory or skin sensitization Did not cause sensitisation on laboratory animals

Germ Cell mutagenicity No data available
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) Inhalation – May cause respiratory irritation

Specific target organ toxicity-repeated exposures (GHS) No data available

Aspiration Hazards No data available

Signs and Symptoms of Exposure Liver- Irregularities – Based on Human Evidence

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

Synergistic effect No data available

RTECS: SB9800000

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity	To Fish: LC50- Oncorhynchus mykiss (Rainbow Trout) 370-490 mg/l 96 h Daphnia and other aquatic invertebrates – EC50 – Daphnia magna (Water Flea) 341 mg/l 48 h
12.2 Persistence and degradability	Biodegradability: Aerobic – Exposure time 7 d Result: 97% Readily biodegradable
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	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: 1105 Class: 3	Packing Group: III
Proper shipping name:	Pentanol	
Marine Pollutant:	No	
Poison Inhalation Hazard:	No	
IMDG	UN-Number: 1105 Class: 3	Packing Group: III EMS-No: F-E, S-D
Proper shipping name:	PENTANOLS	
Marine Pollutant:	No	
IATA	UN-Number: 1105 Class: 3	Packing Group: III
Proper shipping name:	Pentanol	

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 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, Chronic Health Hazard		
Massachusetts Right to Know components	Pentan-1-ol	CAS# 71-41-0	Rev. Date: 3/1/2007
Pennsylvania Right to Know components	Pentan-1-ol	CAS# 71-41-0	Rev. Date: 3/1/2007
New Jersey Right to Know components	Pentan-1-ol	CAS# 71-41-0	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

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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