

# 1-PENTANOL

0535

July 1997

CAS No: 71-41-0

RTECS No: SB9800000

UN No: 1105

EC No: 603-006-00-7

n-Amyl alcohol

n-Butyl carbinol

n-Pentyl alcohol

 $\text{CH}_3(\text{CH}_2)_3\text{CH}_2\text{OH}$  /  $\text{C}_5\text{H}_{12}\text{O}$ 

Molecular mass: 88.2

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
<b>FIRE</b>	Flammable. Heating will cause rise in pressure with risk of bursting.	NO open flames, NO sparks, and NO smoking.	Alcohol-resistant foam, powder, carbon dioxide.
<b>EXPLOSION</b>	Above 33/C explosive vapour/air mixtures may be formed.	Above 33/C use a closed system, ventilation, and explosion-proof electrical equipment.	In case of fire: keep drums, etc., cool by spraying with water.

EXPOSURE		PREVENT GENERATION OF MISTS!	
<b>Inhalation</b>	Cough. Headache. Nausea. Dizziness. Drowsiness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>Skin</b>	MAY BE ABSORBED! Redness.	Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
<b>Eyes</b>	Pain. Redness. Possible corneal damage.	Safety goggles, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Ingestion</b>	Burning sensation. Vomiting (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Remove all ignition sources. Collect leaking liquid in sealable containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Personal protection: filter respirator for organic gases and vapours.	<b>EU classification</b> Xn Symbol R: 10-20-37-66 S: (2-)46 Note: C <b>UN classification</b> UN Hazard Class: 3 UN Pack Group: II

EMERGENCY RESPONSE	SAFE STORAGE
Transport Emergency Card: TEC (R)-30S1105-II NFPA Code: H1; F3; R0	Fireproof. Separated from strong oxidants, and alkaline metals and alkaline-earth metals. Keep in a well-ventilated room.

**IPCS**International  
Programme on  
Chemical SafetyPrepared in the context of cooperation between the International  
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SEE IMPORTANT INFORMATION ON THE BACK.

### IMPORTANT DATA

**Physical State; Appearance**

COLOURLESS LIQUID, WITH CHARACTERISTIC ODOUR.

**Physical dangers**

The vapour is heavier than air and may travel along the ground; distant ignition possible. The vapour mixes well with air, explosive mixtures are easily formed.

**Chemical dangers**

Reacts violently with oxidants. Attacks many alkaline and earth alkaline metals forming flammable/explosive gas (hydrogen - see ICSC 0001).

**Occupational exposure limits**

TLV not established.

MAK: 20 ppm, 73 mg/m<sup>3</sup>; Peak limitation category: I(4); Pregnancy risk group: C (DFG 2007).

**Routes of exposure**

The substance can be absorbed into the body by inhalation of its vapour or aerosol, through the skin and by ingestion.

**Inhalation risk**

No indication can be given about the rate in which a harmful concentration in the air is reached on evaporation of this substance at 20/C.

**Effects of short-term exposure**

The substance is irritating to the eyes, the skin and the respiratory tract. The substance may cause effects on the central nervous system, resulting in depression. Exposure at very high concentrations may result in unconsciousness.

**Effects of long-term or repeated exposure**

Repeated or prolonged contact with skin may cause dermatitis.

### PHYSICAL PROPERTIES

Boiling point: 138/C

Melting point: -79/C

Relative density (water = 1): 0.8

Vapour pressure, kPa at 20/C: 0.13

Relative vapour density (air = 1): 3

Flash point: 33/C c.c.

Auto-ignition temperature: 300/C

Explosive limits, vol% in air: 1.2-10.5

Octanol/water partition coefficient as log Pow: 1.40

### ENVIRONMENTAL DATA

### NOTES

Card has been partially updated in October 2004: see Occupational Exposure Limits, EU Classification, Emergency Response.

Card has been partially updated in August 2007: see Fire fighting.

Card has been partially updated in January 2008: see Occupational Exposure Limits.

### ADDITIONAL INFORMATION

**LEGAL NOTICE**

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