Section 1 - Product and Company Information

Product Name                      3-PENTANOL, 98%
Product Number                    P8025
Brand                             ALDRICH
Company                           Sigma-Aldrich
Street Address                    3050 Spruce Street
City, State, Zip, Country         SAINT LOUIS MO 63103 US
Technical Phone:                  314 771 5765
Emergency Phone:                  414 273 3850 Ext. 5996
Fax:                              800 325 5052

Section 2 - Composition/Information on Ingredient

Substance Name                   3-PENTANOL
CAS #                            584-02-1
SARA 313                         No

Formula                         C5H12O
Synonyms                        Diethyl carbinol * Isoamyl alcohol (ACGIH) *  
                                sec-Pentanol * Pentanol-3 * Pentan-3-ol *  
                                sec-Pentyl alcohol * 3-Pentyl alcohol
RTECS Number:                   SA5075000

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
Combustible (USA) Flammable (EU). Harmful.
Harmful if swallowed. Irritating to eyes, respiratory system and skin.

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

ORAL EXPOSURE
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

DERMAL EXPOSURE
In case of contact, immediately wash skin with soap and copious amounts of water.

EYE EXPOSURE
In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 - Fire Fighting Measures
FLASH POINT
93.2 °F  34 °C  Method: closed cup

AUTOIGNITION TEMP
435 °C

FLAMMABILITY
N/A

EXTINGUISHING MEDIA
Suitable: Carbon dioxide. Dry chemical powder. Appropriate foam.
Unsuitable: Water may be effective for cooling, but may not effect extinguishment.

FIREFIGHTING
Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s): Emits toxic fumes under fire conditions.

EXPOSURE HAZARD(S)
Material: Harmful liquid. Irritant.

Section 6 - Accidental Release Measures

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL
Shut off all sources of ignition. Use nonsparking tools.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP
Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

HANDLING
User Exposure: Do not breathe vapor. Do not get in eyes, on skin, on clothing.

STORAGE
Suitable: Keep tightly closed. Keep away from heat and open flame. Store in a cool dry place.

Section 8 - Exposure Controls / PPE

ENGINEERING CONTROLS
Safety shower and eye bath. Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT
Respiratory: Government approved respirator.
Hand: Rubber gloves.
Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES
Wash thoroughly after handling. Wash contaminated clothing before reuse.

Section 9 - Physical/Chemical Properties
### Appearance
- **Color:** Colorless
- **Form:** Clear liquid

### Property

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>At Temperature or Pressure</th>
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<tbody>
<tr>
<td>Molecular Weight</td>
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<tr>
<td>pH</td>
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<td>MP/MP Range</td>
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<td>Vapor Pressure</td>
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<td>Solvent Content</td>
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<tr>
<td>Solubility</td>
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</table>

N/A = not available

### Section 10 - Stability and Reactivity

#### STABILITY
- **Materials to Avoid:** Strong oxidizing agents.

#### HAZARDOUS DECOMPOSITION PRODUCTS
- **Hazardous Decomposition Products:** Carbon monoxide, Carbon dioxide.

### Section 11 - Toxicological Information

#### ROUTE OF EXPOSURE
- **Skin Contact:** Causes skin irritation.
- **Skin Absorption:** May be harmful if absorbed through the skin.
- **Inhalation:** May be harmful if inhaled.
- **Ingestion:** Harmful if swallowed.
- **Multiple Routes:** Vapor or mist is irritating to the eyes, mucous membranes, and upper respiratory tract.

#### SIGNS AND SYMPTOMS OF EXPOSURE
- Prolonged exposure can cause: Nausea, headache, and vomiting.
- Narcotic effect.

#### TOXICITY DATA
- **Oral**
Rat
1870 mg/kg
LD50

Skin
Rabbit
2520 UL/KG
LD50

IRRITATION DATA

Skin
Rabbit
500 mg
24H
Remarks: Mild irritation effect

Eyes
Rabbit
20 mg
24H
Remarks: Moderate irritation effect

Section 12 - Ecological Information

Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION
This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT
Proper Shipping Name: PENTANOLS
UN#: 1105
Class: 3
Packing Group: Packing Group III
Hazard Label: Flammable liquid
PIH: Not PIH

IATA
Proper Shipping Name: PENTANOLS
IATA UN Number: 1105
Hazard Class: 3
Packing Group: III

Section 15 - Regulatory Information

EU ADDITIONAL CLASSIFICATION
Symbol of Danger: Xn
Indication of Danger: Harmful.
R: 10 20
S: 24/25
Safety Statements: Avoid contact with skin and eyes.

US CLASSIFICATION AND LABEL TEXT
Indication of Danger: Combustible (USA) Flammable (EU). Harmful.
Risk Statements: Harmful if swallowed. Irritating to eyes,
respiratory system and skin.
Safety Statements: Keep away from sources of ignition - no
smoking. In case of contact with eyes, rinse immediately with
plenty of water and seek medical advice. Wear suitable
protective clothing, gloves, and eye/face protection.

UNITED STATES REGULATORY INFORMATION
SARA LISTED: No
TSCA INVENTORY ITEM: Yes

CANADA REGULATORY INFORMATION
WHMIS Classification: This product has been classified in
accordance with the hazard criteria of the CPR, and the MSDS
contains all the information required by the CPR.
DSL: Yes
NDSL: No

Section 16 - Other Information

DISCLAIMER
For R&D use only. Not for drug, household or other uses.

WARRANTY
The above information is believed to be correct but does not
purport to be all inclusive and shall be used only as a guide. The
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