SAFETY DATA SHEET: n-AMYL ALCOHOL

1. IDENTIFICATION

Product Name: n-AMYL ALCOHOL
Synonyms: 1-Pentanol; n-Pentyl alcohol
Formula and Formula Weight: CH₃(CH₂)₃CH₂OH  88.16
Integra numbers beginning with: A714.10
Recommended Use: Industrial use
Restrictions on Use: No information

INTEGRA Chemical Company
24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)
1216 6th Ave N
Kent WA 98032
Phone: 253-479-7000

2. HAZARDS IDENTIFICATION

OSHA Classification: Hazard Category: Hazard Statement:
Acute Toxicity - Dermal 4 Harmful in contact with skin.
Acute Toxicity - Inhalation 4 Harmful if inhaled.
Skin Corrosion/Irritation 2 Causes skin irritation.
Eye Damage/Irritation 2A Causes serious eye irritation.
Specific Target Organ Toxicity (single exposure) 3 May cause respiratory irritation.
Flammable Liquids 3 Flammable liquid and vapor.

Signal Word: Warning

Precautionary Statements
Prevention:
Keep away from heat, sparks, open flames, hot surfaces. – No smoking.
Keep container tightly closed.
Ground, bond container and receiving equipment.
Use explosion-proof electrical, ventilating, lighting, equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing fume, gas, mist, vapors, spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves, eye protection, face protection, protective clothing.

Response:
If on skin: Wash with plenty of water.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a poison center, doctor if you feel unwell.
Specific treatment (see first aid section on this label)
If skin irritation occurs: Get medical advice, attention.
If eye irritation persists: Get medical advice, attention.
Take off immediately contaminated clothing and wash it before reuse.

Storage
Store locked up in a well ventilated place. Keep cool. Keep container tightly closed.

Disposal
Dispose of contents, container in accordance with all governmental regulations.

Hazards Not Otherwise Classified: No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Synonyms CAS # % Weight
n-Amyl alcohol 1-Pentanol; n-Pentyl alcohol 00071-41-0 100

4. FIRST AID MEASURES

Inhalation: Remove person to fresh air and keep comfortable for breathing.
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear, colorless liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Pungent</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information</td>
</tr>
<tr>
<td>pH</td>
<td>No information</td>
</tr>
<tr>
<td>Melting/Freezing Point</td>
<td>-79 °C</td>
</tr>
<tr>
<td>Initial Boiling Point and Boiling Range</td>
<td>137 °C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>32.8 °C</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No information</td>
</tr>
<tr>
<td>Flammability</td>
<td>No information</td>
</tr>
<tr>
<td>Flammable or Explosive Limits (% by volume in air)</td>
<td>Upper: 10 Lower: 1.2</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>0.29 kPa @25°C</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>3</td>
</tr>
<tr>
<td>Relative Density</td>
<td>0.81 Water=1</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition Coefficient: n-octanol/water</td>
<td>1.4</td>
</tr>
<tr>
<td>Auto-Ignition Temperature</td>
<td>300 °C</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No information</td>
</tr>
</tbody>
</table>

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water spray, carbon dioxide, dry chemical or foam. Do not use a stream of water since the stream will scatter and spread the fire.

Special Equipment and Precautions: Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.

Specific Hazards: Above the flash point, flammable or explosive vapor-air mixtures may be formed. Vapors may flow along surfaces to distant ignition sources and flash back.


6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Remove all potential ignition sources. Prevent spread of spill. Wear full protective equipment including suitable respiratory protection. Absorb with sand or inert material. Place into suitable container for disposal.

7. HANDLING AND STORAGE

Incompatible Materials: Incompatible with strong acids and strong oxidizers.

Storage and Handling: Store locked up in a cool, dry, well-ventilated flammable liquids storage area or cabinet away from incompatible materials. Keep away from heat and ignition sources. Keep containers tightly closed and protect them from physical damage. Bond and ground containers when transferring liquid. Use only non-sparking tools and take precautionary measures against static discharge. No smoking.

Keep away from heat, sparks, open flames, hot surfaces. – No smoking.

Keep container tightly closed.

Ground, bond container and receiving equipment.

Use explosion-proof electrical, ventilating, lighting, equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing fume, gas, mist, vapors, spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves, eye protection, face protection, protective clothing.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OSHA & ACGIH Exposure Limits:

n-Amyl alcohol None identified

Engineering Controls: Use adequate general or local exhaust ventilation to keep fume and/or dust levels as low as possible.

Respiratory Protection: If use generates annoying or irritating dusts, mists or vapors, use a NIOSH approved respirator with a particulate filter.

Skin/Eye Protective Equipment: Safety goggles, protective clothing and gloves appropriate for the risk of exposure.

Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers. Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES
### 10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>No information</td>
</tr>
<tr>
<td>Stability</td>
<td>Stable</td>
</tr>
<tr>
<td>Possibility of Hazardous Reactions</td>
<td>Hazardous polymerization will not occur</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>Heat, sparks and open flame.</td>
</tr>
<tr>
<td>Incompatibles</td>
<td>Incompatible with strong acids and strong oxidizers.</td>
</tr>
<tr>
<td>Decomposition Products</td>
<td>Oxides of carbon. Aldehydes.</td>
</tr>
</tbody>
</table>

### 11. TOXICOLOGICAL INFORMATION

**Effects of Over Exposure:**

- **Inhalation:** Inhalation may irritate the nose, throat and upper respiratory tract. May be harmful if inhaled. In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness, central nervous system effects.
- **Skin Contact:** Contact may cause skin irritation.
- **Eye Contact:** Contact may cause serious eye irritation.
- **Ingestion:** No information available
- **Chronic Effects:** None identified
- **Target Organs:** None identified
- **Additional Effects:** None identified
- **Reproductive Effects:** None identified
- **Carcinogenicity:** None identified

**Toxicity Data:**

- **n-Amyl alcohol**
  - LD50 (skin, rabbit): 2000 mg/kg
  - LD50 (oral, rat): 3030 mg/kg

### 12. ECOLOGICAL INFORMATION

**Aquatic Toxicity Data:**

- n-Amyl alcohol: LC50 Inland silverside: 180 mg/L - 96 h

**Terrestrial Toxicity Data:**

- No information available

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available

**Mobility in soil:** No information available

**Other adverse effects:** No information available

### 13. DISPOSAL CONSIDERATIONS

**Disposal Procedures:** Dispose of material and containers in accordance with all local, state and federal regulations.

### 14. TRANSPORTATION INFORMATION

This product is a regulated material for domestic ground transporation, per CFR Title 49.

- **UN Number:** UN1105
- **Proper Shipping Name:** Pentanols
- **Packing Group:** III
- **Hazard Class:** 3
- **Environmental hazards:** No information available
- **Special precautions:** No information available
- **Bulk transport:** No information available

### 15. REGULATORY INFORMATION

n-Amyl alcohol is listed in the TSCA inventory.

### 16. OTHER INFORMATION

OSHA SDS #: 26691 rev 001 6.11.2015

NE = Not established, NA = Not applicable or Not available

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***** END OF SDS *****