Section 1 - Product and Company Information

Product Name: HEXANES, 98.5+, A.C.S. SPECTROPHOTOMETRIC IC GRADE
Product Number: 156175
Brand: Aldrich Chemical

Company: Sigma-Aldrich
Street Address: 3050 Spruce Street
City, State, Zip, Country: St. Louis, MO, 63103, US
Technical Phone: 314 771 5765
Fax: 800 325 5052
Emergency Phone: 414 273 3850 Ext.5996

Section 2 - Composition/Information on Ingredient

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>CAS #</th>
<th>SARA 313</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEXANES</td>
<td>73513-42-5</td>
<td>No</td>
</tr>
</tbody>
</table>

Formula
Synonyms

Section 3 - Hazards Identification

Emergency Overview
Flammable (USA) Highly Flammable (EU). Harmful.
Possible risk of impaired fertility. Irritating to eyes, respiratory system, and skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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

Explosion Hazards
Vapor may travel considerable distance to source of ignition and flash back.
Container explosion may occur under fire conditions.
Flash Point: -9 °F -23 °C

Explosion Limits: Lower: 1.1 % Upper: 7.5 %

Autoignition Temp: 225 °C

Extinguishing Media
Suitable Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting
Protective Equipment Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s) Flammable liquid. Vapor may travel considerable distance to source of ignition and flash back. Emits toxic fumes under fire conditions.
Specific Method(s) of Fire Fighting Use water spray to cool fire-exposed containers.

Section 6 - Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill Evacuate area. Shut off all sources of ignition.

Procedure(s) of Personal Precaution(s) Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up Cover with an activated carbon adsorbent, take up and place in closed containers. Transport outdoors. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling
User Exposure Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage Suitable Keep away from heat, sparks, and open flame. Store in a cool dry place.

Section 8 - Exposure Controls / PPE

Engineering Controls Safety shower and eye bath. Use only in a chemical fume hood.

Personal Protective Equipment Other Wear appropriate NIOSH/MSHA-approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

General Hygiene Measures Wash thoroughly after handling. Wash contaminated clothing before reuse.

Section 9 - Physical/Chemical Properties

Molecular Weight: 86.18 AMU

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>At Temperature or Pressure</th>
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</thead>
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<tr>
<td>pH</td>
<td>N/A</td>
<td>760 mmHg</td>
</tr>
<tr>
<td>BP/BP Range</td>
<td>68 - 70 °C</td>
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</tbody>
</table>

Aldrich Chemical - 156175
Sigma-Aldrich Corporation
www.sigma-aldrich.com
Section 10 - Stability and Reactivity

Stability

Stable.

Materials to Avoid
 Oxidizing agents. Incompatible with: chlorine, fluorine, and magnesium perchlorate.

Hazardous Decomposition Products
 Hazardous Decomposition Products
 Carbon monoxide, Carbon dioxide.

Hazardous Polymerization
 Hazardous Polymerization
 Will not occur.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact
 Causes skin irritation.

Multiple Routes
 May be harmful by inhalation, ingestion, or skin absorption. Vapor or mist is irritating to the eyes, mucous membranes, and upper respiratory tract.

Target Organ(s) or System(s)
 Peripheral nervous system. Kidneys. Testes.

Signs and Symptoms of Exposure
 Prolonged or repeated contact with skin can cause defatting and dermatitis. Contact with eyes can cause redness, tearing, and blurred vision. Ingestion may cause gastrointestinal irritation. Can cause CNS depression. Exposure can cause: Lung irritation, chest pain, and edema which may be fatal. Headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness. Neurotoxic effects.

RTECS Number:

Chronic Exposure - Reproductive Hazard
 Result: Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.
Section 12 - Ecological Information

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.
Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT
Proper Shipping Name: Hexanes
UN#: 1208
Class: 3
Packing Group: Packing Group II
PIH: Not PIH

IATA
Proper Shipping Name: Hexanes
IATA Number: 1208
Hazard Class: 3
Packing Group: II

Section 15 - Regulatory Information

US Classification and Label Text
Indication of Danger
Flammable (USA) Highly Flammable (EU). Harmful.

Risk Statements
Possible risk of impaired fertility. Irritating to eyes, respiratory system, and skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Safety Statements
Keep away from sources of ignition - no smoking. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Avoid exposure - obtain special instructions before use. Wear suitable protective clothing, gloves, and eye/face protection.

US Statements

United States Regulatory Information
SARA 313 Listed: No
Notes: This product is subject to SARA section 313 reporting requirements. This product is subject to SARA section 313 reporting requirements.

Section 16 - Other Information

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. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 1999 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.