## Right to Know Hazardous Substance Fact Sheet

**Common Name:** N-NITROSO-N-ETHYLUREA

**Synonyms:** ENU; N-Ethyl-N-Nitrosourea  
**CAS No:** 759-73-9  
**Molecular Formula:** C₃H₇N₃O₂  
**RTK Substance No:** 1410  
**Description:** Light yellow powder or yellow-pink crystal

### HAZARD DATA

<table>
<thead>
<tr>
<th>Hazard Rating</th>
<th>Firefighting</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 - Health</td>
<td><strong>N-Nitroso-N-Ethylene</strong> may burn, but does not readily ignite. Use dry chemical, CO₂, water spray or foam as extinguishing agents. POISONOUS GASES ARE PRODUCED IN FIRE, including Nitrogen Oxides.</td>
<td><strong>N-Nitroso-N-Ethylene</strong> is highly sensitive to MOISTURE and LIGHT. <strong>N-Nitroso-N-Ethylene</strong> may be decomposed by STRONG BASES (such as SODIUM HYDROXIDE and POTASSIUM HYDROXIDE) to form flammable and reactive Diazothane.</td>
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<tr>
<td>1 - Fire</td>
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**DOT#:** UN 3077  
**ERG Guide #:** 171  
**Hazard Class:** 9 (Miscellaneous Hazardous Material)

### HAZARD DATA

<table>
<thead>
<tr>
<th>Spill/Leaks</th>
<th>Physical Properties</th>
<th>Protective Equipment</th>
<th>Exposure Limits</th>
<th>Health Effects</th>
<th>First Aid and Decontamination</th>
</tr>
</thead>
</table>
| **Isolation Distance:**  
- Spill: 25 meters (75 feet)  
- Fire: 800 meters (1/2 mile)  
Moisten spilled material first or use a HEPA-filter vacuum for clean-up and place into sealed containers for disposal. Wash contaminated surfaces with 5% Acetic Acid after clean-up is complete. | **Water Solubility:** Soluble  
**Melting Point:** 217° to 219°F (103° to 104°C) ( Decomposes)  
**Molecular Weight:** 117.1 | **Gloves:** Nitrile and Natural Rubber  
**Coveralls:** Tyvek®  
**Respirator:** Full facepiece APR with High efficiency filters or SCBA |  
No occupational exposure limits have been established for N-Nitroso-N-Ethylene. | **Eyes:** Irritation  
**Skin:** Irritation  
**Inhalation:** Nose and throat irritation, Headache, dizziness, lightheadedness, and weakness  
**Chronic:** Cancer (liver, brain, and intestines) in animals | **Remove** the person from exposure. **Flush** eyes with large amounts of water for at least 15 minutes. Remove contact lenses if worn. **Remove** contaminated clothing and wash contaminated skin with water. **Begin** artificial respiration if breathing has stopped and CPR if necessary. **Transfer** promptly to a medical facility. |

October 2009