Common Name: **N-NITROSODIPHENYLAMINE**

Synonyms: Benzenamine, N-Nitro-N-Phenyl-; DiphenylNitrosamine; Nitrous Diphenylamide

CAS No: 86-30-6

Molecular Formula: C\(_{12}\)H\(_{10}\)N\(_2\)O

RTK Substance No: 1408

Description: Yellow to brown or orange powder or flake

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**HAZARD DATA**

<table>
<thead>
<tr>
<th>Hazard Rating</th>
<th>Firefighting</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 - Health</td>
<td>Extinguish fire using an agent suitable for type of surrounding fire. <strong>N-Nitrosodiphenylamine</strong> itself does not burn. POISONOUS GASES ARE PRODUCED IN FIRE, including Nitrogen Oxides. Use water spray to keep fire-exposed containers cool.</td>
<td><strong>N-Nitrosodiphenylamine</strong> reacts with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE).</td>
</tr>
<tr>
<td>0 - Fire</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 - Reactivity</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DOT#: None

ERG Guide #: 171

Hazard Class: None

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**SPILL/LEAKS**

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.

DO NOT wash into sewer.

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**PHYSICAL PROPERTIES**

- Flash Point: 326°F (163.4°C)
- Specific Gravity: 1.23 (water = 1)
- Water Solubility: Insoluble
- Boiling Point: 514°F (268°C)
- Melting Point: 152°F (67°C)
- Molecular Weight: 198.2

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**EXPOSURE LIMITS**

No occupational exposure limits have been established for **N-Nitrosodiphenylamine**.

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**PROTECTIVE EQUIPMENT**

- Gloves: Nitrile, Neoprene and Natural Rubber
- Coveralls: Tyvek®
- Respirator: Spill: Full facepiece APR with High efficiency filters
  
  Fire: SCBA

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**HEALTH EFFECTS**

- **Eyes**: Irritation
- **Skin**: No information
- **Inhalation**: Nausea, vomiting and abdominal pain
- **Chronic**: Cancer (bladder) in animals

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**FIRST AID AND DECONTAMINATION**

- **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 soap and water.
- **Begin** artificial respiration if breathing has stopped and CPR if necessary.
- **Transfer** promptly to a medical facility.