Section 1 - Chemical Product and Company Identification

MSDS Name: 2-Nitrobenzoic acid, 85-90%
Catalog Numbers: 27832-0000, 27832-0050, 27832-2500

Section 2 - Composition, Information on Ingredients

<table>
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<th>CAS#</th>
<th>Chemical Name:</th>
<th>%</th>
<th>EINECS#</th>
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<td>552-16-9</td>
<td>2-Nitrobenzoic acid 85-90%</td>
<td>209-004-9</td>
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</table>

Hazard Symbols: XN
Risk Phrases: 22 36/37/38 68

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
Harmful if swallowed. Irritating to eyes, respiratory system and skin. Possible risk of irreversible effects.

Potential Health Effects
Eye: Causes eye irritation.
Skin: Causes skin irritation. May be harmful if absorbed through the skin.
Ingestion: Harmful if swallowed. May cause irritation of the digestive tract.
Inhalation: Causes respiratory tract irritation. May be harmful if inhaled.
Chronic: Possible risk of irreversible effects.

Section 4 - First Aid Measures
**Section 5 - Fire Fighting Measures**

**General Information:**
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:**
Use water spray, dry chemical, carbon dioxide, or chemical foam.

**Section 6 - Accidental Release Measures**

**General Information:**
Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**
Vacuum or sweep up material and place into a suitable disposal container.

**Section 7 - Handling and Storage**

**Handling:**
Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Use only in a chemical fume hood.

**Storage:**
Store in a cool, dry place. Store in a tightly closed container.

**Section 8 - Exposure Controls, Personal Protection**

**Engineering Controls:**
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits**
CAS# 552-16-9:

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**Personal Protective Equipment**

**Eyes:**
Wear chemical splash goggles.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

**Physical State:** Powder
**Color:** off-white
**Odor:** Not available
**pH:** Not available
**Vapor Pressure:** Not available
**Viscosity:** Not available
**Boiling Point:** Not available
**Freezing/Melting Point:** 141 - 148 deg C
**Autoignition Temperature:** Not available
**Flash Point:** Not available
**Explosion Limits: Lower:** Not available
**Explosion Limits: Upper:** Not available
**Decomposition Temperature:** Not available
**Solubility in water:** 6.8g/l

**Specific Gravity/Density:**

**Molecular Formula:** C7H5NO4
**Molecular Weight:** 167.12

Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.
**Conditions to Avoid:** Incompatible materials.
**Incompatibilities with Other Materials:** Strong oxidizing agents, strong bases.
**Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide, carbon dioxide.
**Hazardous Polymerization:** Has not been reported.

Section 11 - Toxicological Information

**RTECS#:** CAS# 552-16-9: DH5050000

**LD50/LC50:** RTECS: Not available.
**Carcinogenicity:** 2-Nitrobenzoic acid - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Other:** The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available
Section 13 - Disposal Considerations
Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

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Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN
Risk Phrases:
- R 22 Harmful if swallowed.
- R 36/37/38 Irritating to eyes, respiratory system and skin.
- R 68 Possible risk of irreversible effects.

Safety Phrases:
- S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 552-16-9: Not available

Canada

CAS# 552-16-9 is listed on Canada's DSL List

US Federal

TSCA

CAS# 552-16-9 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 7/16/1996
Revision #1 Date: 6/11/2004
Revisions were made in Sections: General revision.

The information above is believed to be accurate and represents the best
information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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