3-Nitrophenol
MSDS# 88750

Section 1 - Chemical Product and Company Identification

MSDS Name: 3-Nitrophenol
Catalog Numbers: N/3150/46
Synonyms: None
Company Identification: Fisher Scientific UK
Bishop Meadow Road, Loughborough
Leics. LE11 5RG
For information in Europe, call: (01509) 231166
Emergency Number, Europe: 01509 231166

Section 2 - Composition, Information on Ingredients

CAS#: 554-84-7
Chemical Name: M-nitrophenol
%: 100
EINECS#: 209-073-5

Hazard Symbols: XN
Risk Phrases: 22 33

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
Harmful if swallowed. Danger of cumulative effects.
Potential Health Effects
Eye:
Causes severe eye irritation.

Skin:
Causes skin irritation. May be absorbed through the skin in harmful amounts. If absorbed, may cause symptoms similar to those for ingestion.

Ingestion:
Harmful if swallowed. May cause irritation of the digestive tract. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea.
Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure. May cause methemoglobinemia, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), convulsions, and death. Methemoglobinemia is characterized by dizziness, drowsiness, headache, shortness of breath, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), rapid heart rate and chocolate-brown colored blood.

Inhalation:
May cause respiratory tract irritation. May cause effects similar to those described for ingestion. May cause drowsiness, unconsciousness, and central nervous system depression.
Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Remove contaminated clothing and shoes.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Absorption of this product into the body may cause cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood). Moderate degrees of cyanosis need to be treated only by supportive measures: bed rest and oxygen inhalation. For methemoglobinemia, administer oxygen alone or with Methylene Blue depending on the methemoglobin concentration in the blood. Cleansing of the entire contaminated area of the body is of utmost importance.

Section 5 - Fire Fighting Measures

General Information:
Evacuate area and fight fire from a safe distance. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Combustion generates toxic fumes. Combustible material; even though it may take some effort to ignite.

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:
Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Remove all sources of ignition. Provide ventilation.

Section 7 - Handling and Storage

Handling:
Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Do not ingest or inhale.
clothing before reuse. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage:
Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:
Use adequate ventilation to keep airborne concentrations low.

Exposure Limits
CAS# 554-84-7:

Personal Protective Equipment
Eyes:
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

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:      Solid
Color:              yellow
Odor:              Not available
pH:                Not available
Vapor Pressure:    Not available
Viscosity:         Not available
Boiling Point:     194 deg C (381.20°F)
Freezing/Melting Point: 97 deg C (206.60°F)
Autoignition Temperature:  Not applicable
Flash Point:       Not applicable.
Explosion Limits:  Lower: Not available
Explosion Limits:  Upper: Not available
Decomposition Temperature:  Not available
Solubility in water: Slightly soluble in water.
Specific Gravity/Density:  Not available.
Molecular Formula: NO2C6H4OH
Molecular Weight: 139.0399

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid:
Incompatible materials, dust generation.

Incompatibilities with Other Materials
Not available
Hazardous Decomposition Products
Nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen.
Hazardous Polymerization
Has not been reported.

Section 11 - Toxicological Information

RTECS#:
CAS# 554-84-7: SM1925000
LD50/LC50:
CAS# 554-84-7: Draize test, rabbit, eye: 5 mg/24H
Severe; Draize test, rabbit, skin: 20 mg/24H Moderate; Oral, mouse: LD50 = 1070 mg/kg; Oral, rat: LD50 = 328 mg/kg.;
Carcinogenicity:
M-nitrophenol -
Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other:
See actual entry in RTECS for complete information.

Section 12 - Ecological Information
Not available

Section 13 - Disposal Considerations
Products considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location.
Contact a specialist disposal company or the local authority or advice. Empty containers must be decontaminated before returning for recycling.

Section 14 - Transport Information

IATA
Shipping Name: p-NITROPHENOL
Hazard Class: 6.1
UN Number: 1663
Packing Group: III

IMO
Shipping Name: p-NITROPHENOL
Hazard Class: 6.1
UN Number: 1663
Packing Group: III

RID/ADR
Shipping Name: p-NITROPHENOL
Hazard Class: 6.1
UN Number: 1663
Packing Group: III

USA RQ: CAS# 554-84-7: 100 lb final RQ (Listed under Nitrophenol, mixed); 45.4 k

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 33 Danger of cumulative effects.
Safety Phrases:
S 28 After contact with skin, wash immediately with...
S 28A After contact with skin, wash immediately with plenty of water.

WGK (Water Danger/Protection)
CAS# 554-84-7: 2
Canada
CAS# 554-84-7 is listed on Canada's DSL List
US Federal
TSCA
CAS# 554-84-7 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date:
8/14/1998
Revision #3 Date
10/03/2005

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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