Material Safety Data Sheet

Benzamide
MSDS# 90049

Section 1 - Chemical Product and Company Identification

MSDS Name: Benzamide
Catalog Numbers: B/1460/48
Synonyms: Benzoic Acid Amide; Benzoylamide; Phenylcarboxyamide
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

<table>
<thead>
<tr>
<th>CAS#</th>
<th>55-21-0</th>
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</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>Benzamide</td>
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<tr>
<td>%</td>
<td>100 %</td>
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<tr>
<td>EINECS#</td>
<td>200-227-7</td>
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Hazard Symbols:
XN
Risk Phrases:
22

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Harmful if swallowed. The toxicological properties of this material have not been fully investigated.

Potential Health Effects
Eye:
May cause eye irritation.
Skin:
May cause skin irritation.
Ingestion:
Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.
Inhalation:
May cause respiratory tract irritation.
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:
Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion:
If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.
Inhalation:
Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:   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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

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. Wash area with soap and water. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling:
Wash thoroughly after handling. Use only in a well-ventilated area. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage:
Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:
Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits
CAS# 55-21-0:

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 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:  Not available
Odor:  none reported
pH: Not available
Vapor Pressure: Not available
Viscosity: Not available
Boiling Point: Not available
Freezing/Melting Point: Not available
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: Not available
Specific Gravity/Density: 1.0800g/cm3
Molecular Formula: C7H7NO
Molecular Weight: 121.14

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.
Hazardous Polymerization
Has not been reported.

Section 11 - Toxicological Information
RTECS#:
CAS# 55-21-0: CU8700000
LD50/LC50:
CAS# 55-21-0: Oral, mouse: LD50 = 1160 mg/kg;
Carcinogenicity:
Benzamide -
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
Ecotoxicity:
Fish: Fathead Minnow: LC50 = 661 mg/L; 96 Hr.; Flow-through; 25.1 degreesC
Bacteria: Phytobacterium phosphoreum: EC50 = 59.3-63.6 mg/L; 5,15,30 minutes; Microtox test; 15 degrees C

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: Not regulated as a hazardous material
Hazard Class:
UN Number:
Packing Group:
IMO
Shipping Name: Not regulated as a hazardous material
Hazard Class:
UN Number:

Packing Group: RID/ADR
Shipping Name: Not regulated as a hazardous material
Hazard Class: UN Number: Packing Group: Section 15 - Regulatory Information
European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: XN
Risk Phrases: R 22 Harmful if swallowed.
Safety Phrases: S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
WGK (Water Danger/Protection)
   Canada
   CAS# 55-21-0: 1
US Federal
   TSCA
   CAS# 55-21-0 is listed on the TSCA Inventory.
Section 16 - Other Information
MSDS Creation Date: 7/19/1999
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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