MATERIAL SAFETY DATA SHEET
COMPLIES WITH OSHA HCS 29 CFR 1910.1200 AND OSHA 174

PRODUCT NAME (AS USED ON LABEL): HOUSEHOLD AMMONIA

ALTERNATE PRODUCT NAME: VARIOUS BRANDED AND PRIVATE LABEL NAMES
(Clear, Clear Blue, Lemon, Sudsy)

**EMERGENCY TELEPHONE NUMBER: (602) 253-3334**

SECTION I

MANUFACTURER/DISTRIBUTOR: THE DIAL CORP
1850 N. CENTRAL
PHOENIX, AZ 85077

TELEPHONE NUMBER FOR GENERAL INFORMATION: (602) 991-3000

SECTION II-HAZARDOUS INGREDIENTS

Finished Product: OSHA (PEL)-N/A          ACGIH (TLV)-N/A
Hazardous Components:

<table>
<thead>
<tr>
<th>Chemical/Common Name</th>
<th>CAS Number</th>
<th>PEL</th>
<th>TLV</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonia (AS NH₃)</td>
<td>7664-41-7</td>
<td>35 ppm* STEL</td>
<td>25 ppm* TWA</td>
<td>NIOSH Ceiling-5 min.</td>
</tr>
<tr>
<td><em>(Ammonia Gas)</em></td>
<td></td>
<td></td>
<td>35 ppm* STEL</td>
<td>50 ppm*</td>
</tr>
</tbody>
</table>

SECTION III-PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 191-212°F
Vapor Density (Air=1): N/A
Specific Gravity (Water=1): 0.9890
Vapor Pressure (mm Hg.): N/A
Volatile by Weight (%): 98.1
Solubility in Water: Complete
Appearance/Odor: Clear, cloudy white or colored liquid with distinct ammonia odor.

SECTION IV-FIRE AND EXPLOSION HAZARD DATA

Flash Point (°F)/Method Used: Non-flammable
Flammable Limits (LEL/UEL): LEL=16% AS NH₃/UEL=27% AS NH₃
Extinguishing Media: Dry chemical, carbon dioxide, water spray or foam.
Special Fire Fighting Procedures: If possible, move product from fire area. Cool fire-exposed containers with water spray.
Unusual Fire and Explosion Hazards: Negligible fire and explosion hazard; however, if ammonia gas is evolved, it is flammable.
SECTION V - REACTIVITY DATA

Stability: Stable
Conditions to Avoid: Heat
Chemical Incompatibility: Chlorine, bromine, iodine, hypochlorite, mineral acids.
   Violent reactions may occur with incompatible materials, releasing irritating or
toxic gases.
Hazardous Decomposition Products: Toxic oxides of nitrogen and ammonia gas.
Hazardous Polymerization: Will Not Occur
   Conditions to Avoid: None

SECTION VI - HEALTH HAZARD DATA

Route of Entry: Inhalation-Likely  Skin-Likely  Ingestion-Unlikely under normal use conditions

Health Hazards (Acute and Chronic): (Acute)-Based on the testing of this product in
   animals, it is both an eye and skin irritant (rabbit) and toxic by ingestion (rat).
   (Chronic)-Not determined on this product.

Carcinogenicity*: NTP  IARC Monographs  OSHA Regulated
   N/A  N/A  N/A

*Not determined for finished product or Ammonia (NH₃), the hazardous component, in the product.

Effects of Overexposure: The following discussion is based primarily on the fact that
ammonia (as NH₃) is the hazardous ingredient in the finished product. The effects
described represent the "worst case" scenario for the finished product.

Inhalation - Mild exposure to ammonia vapors may cause irritation of the nose,
   throat, coughing and sneezing. A more severe exposure may cause respiratory irritation, dyspnea, pulmonary edema. Repeated or
   prolonged exposure to vapors may cause, in addition to irritation, bronchitis and pneumonia.

Ingestion - If ingested, may cause excessive salivation, nausea, vomiting, gastric
   irritation with chances of perforation. Ingestion of large quantities, 
   may produce CNS depression, shock and convulsions.

Skin - Powerful irritant, may cause severe burning pain and corrosive damage.
   Repeated or prolonged exposure may cause dermatitis.

Eyes - Powerful irritant, may cause conjunctivitis, swelling of eyelids,
   chemical burns, transient corneal damage. Repeated or prolonged
   exposure may cause, in addition to irritation, cataracts and retinal
   atrophy.

Medical Conditions Generally Aggravated By Exposure: None known.
HOUSEHOLD AMMONIA (A-101)

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SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled:
Eye Protection - Avoid eye contact. Wear protective safety goggles or face shield.
Skin Protection - Avoid prolonged or repeated skin contact. Wear protective gloves.
Respiratory Protection - Keep upwind of spill. Avoid breathing vapors. Use NIOSH approved respirator that will provide protection from ammonia gas. If ammonia vapors are greater than 300 ppm use self-contained breathing apparatus with full face shield.
Handling: Do not mix with other household chemicals, such as bleach, automatic toilet bowl cleaner, wall or tile cleaners.
Storage: Store in cool, ventilated area. Keep out of direct sunlight. Avoid overheating. Plastic bottle will bulge from ammonia vapor pressure.
Normal Clean Up: Ventilate area. Flush away spilled product with water when vapors will permit.
Waste Disposal: Dilute with water and flush to sewer in accordance with federal, state and local environmental regulations.
Other Precautions: None

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SECTION VIII: FIRST AID & MEDICAL EMERGENCY PROCEDURES

Eyes: Immediately flush eyes with running water for at least 15 minutes. Get prompt medical attention.
Skin: Rinse well with running water. If irritation persists, contact physician or local poison control center.
Inhalation: If effects occur, remove victim to fresh air. Provide symptomatic and supportive care. Contact physician or local poison control center.
Ingestion: Immediately give large quantities of water or milk to dilute. Do not induce vomiting. Get prompt medical attention.

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SECTION IX: CONTROL MEASURES-OCCUPATIONAL

Respiratory Protection (Specify Type): See Section VII above.
Ventilation:
Use local exhaust system
Mechanical (General)-N/A
Special-N/A
Protective Gloves: See Section VII above
Eye Protection: See Section VII above
Other Protective Clothing or Equipment: Uniforms, coveralls or labcoats
Work/Hygienic Practices: Provide eye bath and emergency shower. Launder work clothing when soiled.

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SECTION X: ENVIRONMENTAL IMPACT

Applicable Regulations: CPSC 16 CFR 1500
DOT/EPA Hazard Class: N/A
Shipping Name: See product name
EPA - SARA Title III Section 313: Toxic chemical - no

NOTE: N/A=Not Applicable  ND= Not Determined  NL=Not Listed  NIF=No Information Found  NE=None Established

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Date Prepared: 04/24/92

Change: Reviewed and Updated MSDS

End of MSDS