**ARMADILLO A**

**CONTINENTAL RESEARCH CORP.**
P.O. BOX 8428
ST. LOUIS, MO 63132

**REVISED DATE: 03-MAR-93**

**EMERGENCY RESPONSE:**

(314) 426-0410

**NFPA HAZARD RATINGS**

* Health: 2  Flammability: 1  Reactivity: 0

* 3D Storage Code: Level I

**SECTION I - GENERAL INFORMATION**

Product Name: ARMADILLO A

DOT Hazard Class: ORM-D

**SECTION II - HAZARDOUS INGREDIENTS**

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS</th>
<th>OSHA</th>
<th>ACGIH</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Triethanolamine</td>
<td>102-71-6</td>
<td>Not Est</td>
<td>Not Est</td>
<td></td>
</tr>
<tr>
<td>2. Propane</td>
<td>74-98-6</td>
<td>1000 ppm</td>
<td>1000 ppm</td>
<td></td>
</tr>
<tr>
<td>3. Isobutane</td>
<td>75-28-5</td>
<td>Not Est</td>
<td>800 ppm</td>
<td></td>
</tr>
</tbody>
</table>

*SARA 313 Information:
Subject to the reporting and supplier notification of SARA 313.

**SECTION III - PHYSICAL DATA**

Boiling Point (C.): N/A
Specific Gravity (H2O=1) @ 25 C.: 1.00
Vapor Pressure (psig @ 25 C.): 50 psig
Vapor Density (Air=1): >1
Evaporation Rate (Butyl Acetate=1): <1
pH @ 25 C.: 11.00
Solubility in water: Soluble
Appearance and Odor: White Foam - Ammonia Odor

**SECTION IV - FIRE & EXPLOSION DATA**

Flame Projection: None
Flash Point (TCC): N/A
Flammable Limits, % by Volume: LEL: Not Established. UEL: Not Established.
Extinguishing Media: CO2, Standard Foam, Dry Chemical, Halon.
Special Fire Fighting Procedures: Wear self-contained breathing apparatus.
Unusual Fire & Explosion Hazards: Exposure to temperatures over 120 degrees F. may cause bursting or venting. Heat or fire may cause hazardous fumes: Carbon Monoxide.

**SECTION V - HEALTH HAZARD DATA**

General: Toxicity information is not available for this finished product. This health hazard assessment is based on information available for the components in the finished product.

Threshold Limit Value: See Section II
Regulated: OSHA, DOT
Carcinogen - NTP & IARC Program: Not considered a carcinogen.
Symptoms of Exposure - Eyes: May cause irritation, redness, or watering.

Skin: May cause itching, dryness, redness, or irritation.
Ingestion: Nausea, headache, vomiting.
Inhalation: Large amounts of vapors may cause nausea, or dizziness.

Chronic Effects of Overdose: Unknown, but not likely to occur from aerosol use.

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SECTION V - HEALTH HAZARD DATA

Medical Conditions Aggravated by Exposure: Skin sensitivity, chemical allergies.

Primary Route(s) of Entry: Eyes, skin, ingestion, inhalation.

Emergency First Aid - Eyes: Flush with water for 15 minutes. If irritation persists, seek medical attention.

Skin: Wash with soap and water. If irritation persists, seek medical attention.

Ingestion: Do not induce vomiting. Seek medical attention.

Inhalation: Remove to fresh air.

SECTION VI - REACTIVITY DATA

Stability: Stable

Incompatibility: Avoid oxidizing materials.

Materials to Avoid: Avoid oxidizing materials.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Sources of heat.

Hazardous Decomposition Products: Open flames may produce carbon monoxide.

SECTION VII - ENVIRONMENTAL PROTECTION PROCEDURES

Steps to be taken in case material is released or spilled:

1. Remove all sources of ignition. Dilute area if possible for material recovery.
2. Small quantities may be absorbed with absorbent materials.

Waste disposal method:

Dispose of in a manner approved by local, state and federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Eyes Protection: Safety goggles. For short usage none required.

Skin Protection: Rubber gloves. For short usage none required.

Respiratory Protection: Not required.

Ventilation Recommended: General ventilation recommended to maintain the level of the hazardous ingredients to less than half of the TLV.

Other Protection: None

SECTION IX - SPECIAL PRECAUTIONS

Hygienic Practices in Handling & Storage:

Do not store where temperatures exceed 120 degrees Fahrenheit.

Keep out of reach of children.

The information contained herein is based on the data available to us and is believed to be correct.