



# MATERIAL SAFETY DATA SHEET

## SECTION 1 — PRODUCT NAME & HAZARD SUMMARY

**Product identifier:** Formula B.R. (Blood Remover)  
**Product Number:** 1039, 1040  
**Product Use:** Protein Stain Remover  
**Primary Use:** Spot Removal  
**Preparation Date:** June 2000      **Revision Date:** February 2008  
**Manufacturer's name and address:** Refer to supplier  
**Supplier name and address:**

### ***ALBATROSS USA INC./EXPERT WORLDWIDE***

36-41 36 <sup>th</sup> Street	5439 San Fernando Road West
Long Island City, New York	Los Angeles, California
United States	United States
11106	90039
718-392-6272	818-543-5850

**Emergency Telephone #:** Chemtrec (Day or Night) 800-424-9300 (For Chemical Emergency: Spill, Leak, Fire, Exposure or Accident)

IMPORTANT: Read this MSDS before handling and disposing of this product. Pass this information on to employees, customers, and users of this product.

<b>NFPA</b>		<b>SARA TITLE III</b>	
<b>HAZARD</b>	<b>RATING</b>	<b>SECTION 313</b>	<b>CANADA (WHMIS)</b>
Health	U Unknown	Not Applicable()	D2: Causing other Toxic Effects
Fire	0 Minimal	Applicable (X) Ammonium Hydroxide (R.Q. = 1000 lbs.)	
Reactivity	0 Minimal	VOC Content: 0 grams per liter	

## SECTION 2 — HAZARDOUS COMPONENTS

	%	OSHA(ppm) PEL	ACGIH(ppm) TWA	LD <sub>50</sub> (mg/kg) STEL	
Aqua Ammonia, 28% C.A.S. #1336-21-6	≤4.6	50*	25*	35*	N.A.V.

\*for ammonia gas

Ingredients Not Identified Are Non-Hazardous.

## SECTION 3 — PHYSICAL & CHEMICAL DATA

<b>Appearance:</b> Light Blue Liquid	<b>Evaporation Rate (H<sub>2</sub>O = 1):</b> Equal to Water
<b>Odor:</b> Ammonia	<b>Vapor Density (Air = 1):</b> N.A.P.
<b>Boiling Point:</b> 212° F (100° C)	<b>Vapor Pressure (MM):</b> N.A.V.
<b>Freezing Point:</b> 32° F (0° C)	<b>Solubility in Water:</b> Complete

**pH:** 10.0.**% Volatile:** 98%**Odor Threshold (ppm):** N.A.V.**Specific Gravity (Water = 1):** 0.99**Co-Efficient of Water/Oil Distribution:** N.A.V.

## SECTION 4 — FIRE & EXPLOSION HAZARDS

**Flash Point:** None**Flammable Limits in Air, % By Volume:** N.A.P.**Fire Fighting Media (1990 Emergency Response Guidebook, DOT P 5800.5):** Dry chemical, carbon dioxide, water spray or foam. For large fires, use water spray, fog or alcohol foam.**Special Fire Fighting Procedures:** Wear self contained breathing apparatus.**Unusual Fire and Explosion Hazard:** None**Hazardous Combustion Products:** N.A.P.**Conditions of Flammability:** N.A.P.**Auto Ignition Temp. (° C):** N.A.P.**Explosion Data: - Sensitivity to Mechanical Impact:** N.A.P.**Sensitivity to Static Discharge:** N.A.P.

## SECTION 5 — REACTIVITY HAZARD DATA

**Stability (Conditions to Avoid):** Stable**Incompatibility (Materials to Avoid):** Acrolein, Acrylic Acid, strong oxidizers**Hazardous Decomposition Products:** Thermal decomposition may release ammonia gas**Hazardous Polymerization (Conditions to Avoid):** Will not occur

## SECTION 6 — HEALTH HAZARD DATA

**Primary Route(s) of Entry:** Inhalation  Skin  Ingestion **Warning!** May Cause Eye and Skin Irritation. May Be Harmful if Swallowed.**Primary Irritation Score = 1.5 (Category IV, 40 CFR 156.10), per dermal administration (rabbit), this product is only a slight irritant.****Signs & Symptoms of Exposure: (Acute & Chronic)****EYES:** Liquid and vapors may cause irritation with redness, tearing and blurred vision, repeated or prolonged contact may cause conjunctivitis.**SKIN:** Prolonged contact may cause irritation and/or dermatitis.**INGESTION:** May cause gastrointestinal irritation, nausea, vomiting. Respiratory irritation and pulmonary edema may occur. Ingestion of large quantities may be fatal.**INHALATION:** May cause nose and throat irritation, chest pain and pulmonary edema.**IRRITANCY OF PRODUCT:** Irritant**SENSITIZATION TO PRODUCT:** N.A.V.**CARCINOGENICITY, REPRODUCTIVE TOXICITY, TERATOGENICITY, MUTAGENICITY:** N.A.V.**TOXICOLOGICALLY SYNERGISTIC PRODUCTS:** N.A.V.**Emergency & First Aid Procedures:****EYES:** Remove contact lenses, if worn. Flush with water for at least 15 minutes. Call a physician.

**SKIN:** Remove contaminated clothing, wash affected area with soap and water.

**INHALATION:** Remove to fresh air. If breathing has stopped, perform artificial respiration. If breathing is difficult, give oxygen, if available. Get medical help.

**INGESTION:** Treat symptomatically, get medical attention immediately. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Give water or milk to drink immediately and induce vomiting. Irrigate mouth with 1% acid or vinegar.

## SECTION 7 — SPILL AND LEAK PROCEDURES

**Large Spills:** Contain and transfer to drums for use or disposal.

**Small Spills:** Flush with water.

**Waste Disposal Method:** May be considered a hazardous waste, dispose of according to all applicable regulations. Incineration in permitted facilities or disposal in permitted land fill are preferred disposal methods.

**Handling Procedures & Equipment:** Wear protective gloves, eye protection and respirator.

**Storage Requirements:** Keep away from heat, store away from acids and oxidizers.

## SECTION 8 — SPECIAL PROTECTION, PREVENTATIVE MEASURES/IN CASE OF LARGE SPILL OR FIRE

**Engineering Controls/Ventilation:** Local exhaust system sufficient to maintain exposure below TWA values.

**Respirator: The following respirators are recommended & ranked in order from minimum to maximum protection:**

Chemical Cartridge Respirator with an Organic Vapor Cartridge with a Full Face Piece.

Gas Mask with Organic Vapor Canister with a Full Face Piece.

Type "C" Supplied-Air Respirator with Full Face Piece.

Self-Contained Breathing Apparatus with a Full Face Piece Operated in Pressure-Demand.

**Personal Protective Equipment:** Wear chemical tight goggles when handling product.

## SECTION 9 — TRANSPORTATION DATA

**DOT Hazard Classification 49 CFR172.101:** None, not regulated.

**DOT Label:** None

**U.N./IATA:** Not regulated

## SECTION 10 — STATE RIGHT TO KNOW INFORMATION

**Water** - C.A.S. #7732-18-5, **Aqua Ammonia** - C.A.S. #1336-21-6, **Sodium Lauryl Sulfate** - C.A.S. #151-21-3, **Coconut Diethanol Amide** - C.A.S. #68603-42-9

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### Abbreviations:

N/Ap – Not Applicable

OSHA – Occupational Safety and Health Act

C.A.S. – Chemicals Abstract Service Number

PEL – Permissible Exposure Limit

SARA Title III, Sec. 313 – Superfund Amendments & Reauthorization Act

N/Av – Not Available

N.Ap -- Not Applicable

U.N. -- United Nations

ACGIH – American Conference of Governmental Industrial Hygienists  
DOT – United States Department of Transportation  
WHMIS – Workplace Hazardous Material Information System  
TWA – Time Weighted Average for 8 Hours  
Mg/M<sup>3</sup> – Milligrams per Cubic Meter of Air  
NFPA -- National Fire Protection Agency  
(C) -- Ceiling, Limit for Exposure  
Mg/Kg -- Milligrams per Kilogram (1,000 grams)  
R.Q. -- Amount of spill that must be reported to EPA  
LD50 -- Lethal Dose for 50% Test Animals  
STEL -- Short Term Exposure Level (15 min)  
ppm -- part(s) per million  
SKN -- Skin Effects  
IATA -- International Air Transport Association

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