

# Material Safety Data Sheet

VACUSOL PLUS  
QUICK IDENTIFIER  
Common Name: (used on label and list)

May be used to comply with OSHA's Hazard Communication Standard,  
29CFR 1910. 1200. Standard must be consulted for specific requirements.

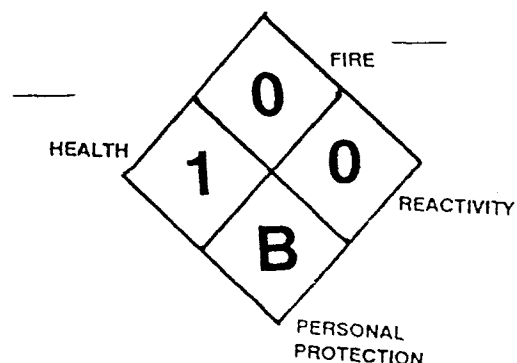
## SECTION 1 -

Name BIOTROL INTERNATIONAL  
Address 650 S. Taylor Avenue  
City, State, and ZIP Louisville, CO 80027  
Signature of Person Responsible for Preparation (Optional)

Emergency Telephone No. 800-822-8550  
Other Information Calls 303-673-0341  
Date Prepared 11/24/92

## SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) (chemical & common name(s))	OSHA PEL	ACGIH TLV	Other Exposure Limits	% (optional)	CAS NO.
None					



## SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point 212° F. Specific Gravity (H<sub>2</sub>O=1) Vapor Pressure (mm Hg) like water  
Vapor Density (Air = 1) heavier than air  
Solubility in Water complete Reactivity in Water  
Appearance and Odor liquid Melting Point n/a pH: 12:4

## SECTION 4 - FIRE & EXPLOSION DATA

Flash Point 200 F. C. Method Used PMCC Flammable Limits in Air % by Volume LEL Lower not determined UEL Upper not flammable  
Auto-Ignition Temperature Extinguisher Media CO<sub>2</sub>, dry chemicals, foam or water type BC or ABC extinguishers  
Special Fire Fighting Procedures Use self-contained breathing apparatus

Unusual Fire and Explosion Hazards Strong acids and bases react with aluminum to form hydrogen which is explosive if ignited

\* \* \* IMPORTANT \* \* \*

While seller believes that the information contained herein is accurate, such information is offered solely for its customers' consideration and verification under their specific use conditions. This information is not deemed a warranty or representation of any kind for which seller assumes legal responsibility.

**SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)**

Stability Unstable  Conditions Stable  to Avoid

Incompatibility (Materials to Avoid)

Hazardous Decomposition Products

Hazardous Polymerization May Occur  Conditions Will Not Occur  to Avoid

**SECTION 6 - HEALTH HAZARDS**

1. Acute

2. Chronic

Signs and Symptoms of Exposure Contact with eyes causes irritation. Avoid prolonged/repeated contact with skin. If inhaled, vapors may irritate respiratory passages.

Medical Conditions Generally Aggravated by Exposure

Chemical Listed as Carcinogen or Potential Carcinogen

National Toxicology Program Yes  No

I.A.R.C. Monographs Yes  No

OSHA Yes  No

Emergency and First Aid Procedures

Follow suggestions below. If symptoms persist, consult a physician.

**ROUTES OF ENTRY**

- 1. Inhalation Remove to fresh air. Use oxygen or artificial respiration, if needed
- 2. Eyes Flush eyes immediately with plenty of water for 15 minutes.
- 3. Skin Wash off skin and remove contaminated clothing.
- 4. Ingestion If swallowed, consult a physician immediately.

**SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES**

Precautions to be Taken in Handling and Storage

Avoid overheating or freezing.

Other Precautions

Steps to be Taken in Case Material is Released or Spilled

Contain all spills and leaks. Ventilate area. Soak with absorbent. Shovel into waste container. Flush area with water.

Waste Disposal Methods (Consult federal, state, and local regulations)

Spilled material is slippery.

**SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES**

Respiratory Protection (Specify Type)

Ventilation

Local Exhaust

Mechanical (General)

Special

Other

Protective Gloves

Yes--impervious gloves.

Eye Protection

Goggles to avoid contact.

Other Protective Clothing or Equipment

Work/Hygienic Practices

Use common sense for safety.

**IMPORTANT**

Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate.