



M A T E R I A L S A F E T Y D A T A S H E E T

24-Hour Emergency #: (U.S.) 1-800-535-5053 / (Outside U.S.) 352-323-3500

SECTION I: Product & Company Identification

Product Name: **Vacusol Ultra™**
Catalog Number: **ED900, ED903**
Distributed by: Biotrol
13705 Shoreline Court East
Earth City, MO 63045
1.800.822.8550

SECTION II: Health Hazard Information

Appearance: Yellow liquid with lemon odor

Primary Routes of Exposure:

Skin contact: May cause irritation

Eye contact: Irritating to eyes

Ingestion: Not determined

Inhalation: Vapors may irritate respiratory passages

NFPA Ratings: Health (1); Fire (1); Reactivity (0)

SECTION III: Hazardous Components

COMPONENT	CAS No.	OSHA PEL	ACGIH TWA	%
Di-(C-8-10)-alkyldimethyl ammonium chlorides	68424-95-3	N/A	N/A	< 5%
Alkyldimethylbenzyl ammonium chloride (C12-16)	68424-85-1	N/A	N/A	< 5%
Ethanol	64-17-5	1000 ppm	1000 ppm	< 1%
Sodium Metasilicate	6834-92-0	N/A	N/A	< 1%
Tetrasodium EDTA	64-02-8	N/A	N/A	5.3%
Free Amine	Confidential	N/A	N/A	< 1%

IARC, NTP and OSHA do not list this product or its ingredients as carcinogens.

SECTION IV: First Aid Procedures

Eye Contact:	Flush eyes immediately with water for at least 15 minutes. Get medical attention.
Skin Contact:	Wash off skin and remove contaminated clothing.
Ingestion:	DO NOT INDUCE VOMITING. Get immediate medical attention.
Inhalation:	Remove to fresh air. Use oxygen or artificial respiration if needed.

SECTION V: Fire Fighting Measures

Flash point (method used):	200°F / 93°C (PMCC)
Flammable limits:	Not determined
Extinguishing media:	CO ₂ , dry chemicals, foam or water type BC or ABC extinguishers
Special fire-fighting instructions:	Use self-contained breathing apparatus
Fire and explosion hazards:	Strong acids and bases react with aluminum to form hydrogen which is explosive if ignited.

SECTION VI: Accidental Release Measures

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

Note: Spilled material is slippery.

SECTION VII: Handling and Storage

Handling and Storage: For professional use only. Read the label before use. Keep out of reach of children. Avoid overheating or freezing.

Other Precautions: Read and observe all labeled precautions.

SECTION VIII: Personal Protection

Eye Protection:	Goggles or safety glasses
Protective Gloves:	Rubber or other protective chemical resistant gloves
Ventilation:	Normal room ventilation
Respiratory Protection:	Not normally required
Other Protective Clothing:	Clothes sufficient to avoid contact

SECTION IX: Physical and Chemical Properties

Physical State:	Liquid
Solubility in water:	Complete
pH:	~12.4
Specific gravity (Water = 1):	~1.01
Vapor pressure (mm Hg):	Like water
Vapor density (Air = 1):	Heavier than air
Freezing point:	Not determined
Boiling point:	212°F (100°C)
Appearance:	Yellow liquid with lemon odor

SECTION X: Stability and Reactivity

Stability: Stable

Hazardous polymerization: Will not occur

SECTION XI: Toxicological Information

Eye Effects: Irritating to eyes

Skin Effects: May cause irritation

Acute Oral Effects: Vapors may irritate respiratory passages

Long term exposure: None known

SECTION XII: Ecological Information

N/A

SECTION XIII: Disposal Considerations

Dispose of in accordance with all local, state, and federal regulations.

SECTION XIV: Transport Information

DOT Shipping Name: Not hazardous

DOT Hazard Class: None

Sea: Not hazardous

Air: Not hazardous

Ground: Not hazardous

SECTION XV: Regulatory Information

N/A

SECTION XVI: Other Information

None

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Biotrol makes no recommendation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for particular purpose.

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