



# S A F E T Y   D A T A   S H E E T

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## **SECTION I: Identification**

### **Product Identifier:**

**Product Name:** Vacusol™ Neutral  
**Part/Item Number:** ED900, ED903  
**CAS Number:** Mixture of 68391-01-5, 68956-79-6, 64-17-5, and 68439-51-0

### **Recommended Use of the Substance or Mixture and Restrictions on Use:**

**Recommended Use:** Dental vacuum line cleaner  
**Restrictions on Use:** For professional use only

### **Details of the Supplier:**

**Manufactured by:** Biotrol  
13705 Shoreline Court East  
Earth City, MO 63045  
1-800-822-8550

### **Emergency Phone Number:**

**Infotrac:**  
**24-Hour Number-** (U.S.) 1-800-535-5053  
**Outside U.S.-** 352-323-3500

## **SECTION II: Hazard(s) Identification**

**OSHA HCS Status:** This product is a hazardous chemical, as defined by OSHA at 29 CFR 1910.1200.

**Relevant Route of Exposure/Target Organs:** Dermal, Eyes, Respiratory System

**Classification of the Substance or Mixture:**

| Health Hazard                                                        | Physical Hazard |
|----------------------------------------------------------------------|-----------------|
| Eye Damage/Irritation (Hazard Category 2B)                           | Not applicable  |
| Skin Corrosion/Irritation (Hazard Category 2)                        |                 |
| Specific Target Organ Toxicity – Single Exposure (Hazard Category 3) |                 |

### **Label Elements:**

**Hazard Symbol:**



**Signal Word: WARNING**

**Hazard Statement(s):**

Causes skin irritation.  
Causes eye irritation.  
May cause respiratory irritation.

**Precautionary Statement(s):**

**Prevention –**

Wash hands thoroughly after handling.  
Wear protective gloves.  
Avoid breathing mist, vapors, or sprays.  
Use only outdoors or in a well-ventilated area.

**Response –**

If on skin: Wash with plenty of water.  
Specific treatment for skin exposure: Remove contaminated clothing and shoes immediately. Wash with large amounts of water until no evidence of chemical remains.  
If skin irritation occurs: Get medical advice.  
Take off contaminated clothing and wash it before reuse.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
Call a poison center or physician if you feel unwell.

**Storage –**

Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.

**Disposal –**

Dispose of contents and container in accordance with local, regional, national, and international regulations.

**Other Hazards:** Not known

### **SECTION III: Composition/Information on Ingredients**

Hazardous Components:

| Component                                                          | CAS #      | WT% |
|--------------------------------------------------------------------|------------|-----|
| Alkyl dimethyl benzyl ammonium chloride (C12-18) <sup>+</sup>      | 68391-01-5 | <5  |
| Alkyl dimethyl ethylbenzyl ammonium chloride (C12-18) <sup>+</sup> | 68956-79-6 | <5  |
| Ethanol                                                            | 64-17-5    | <1  |
| Ethoxylated propoxylated C12-14 alcohols                           | 68439-51-0 | <1  |

<sup>+</sup>TSCA Registry Name:

Alkyl dimethyl benzyl ammonium chloride (C12-18): C12-18-Alkyldimethylbenzyl ammonium chlorides  
Alkyl dimethyl ethylbenzyl ammonium chloride (C12-18): C12-18-Alkyldimethyl(ethylbenzyl) ammonium chlorides

### **SECTION IV: First-Aid Measures**

**Description of First Aid Measures:**

**Inhalation –** Remove from exposure area to fresh air immediately. Perform artificial respiration or use oxygen, if necessary.

**Eye Contact –** Wash eyes immediately with large amounts of water for at least 15 minutes, occasionally lifting upper and lower lids, until no evidence of chemical remains.

**Ingestion –** If vomiting occurs, keep the head lower than hips to help prevent aspiration.

**Skin Contact** – Remove contaminated clothing and shoes immediately. Wash with large amounts of water until no evidence of chemical remains.

**Most Important Symptoms and Effects, Acute and Delayed:** Causes skin irritation. Causes eye irritation. May cause respiratory irritation.

**Indication of Immediate Medical Attention and Special Treatment Needed:** Get medical attention immediately if product comes into contact with skin or eyes, or if it is inhaled or ingested.

## **SECTION V: Fire-fighting Measures**

**Extinguishing Media:** CO<sub>2</sub>, dry chemical, foam, or water type BC or ABC extinguisher

**Specific Hazards Arising from the Substance or Mixture:** Not known

**Advice for Fire-Fighters:**

**Protective Equipment** – Firefighters should be equipped with self-contained breathing apparatus and turn out gear.

**Precaution** – Keep away from heat, sparks, open flames, and hot surfaces. Adequate ventilation and cleanup must be maintained to minimize vapor accumulation.

## **SECTION VI: Accidental Release Measures**

**Personal Precautions, Protective Equipment, and Emergency Procedures:**

**Personal Precautions** – Take precautions to avoid eye, skin, and respiratory exposure. Should exposure occur, see Section IV for first aid measures

**Protective Equipment** – Wear protective equipment. See Section VIII.

**For Emergency Responders** – Spilled material is slippery. Maintain adequate ventilation to minimize vapor accumulation.

**Environmental Precautions** – Do not discharge into waterways or sewer systems without proper authority.

**Methods and Materials for Containment and Cleaning Up:** Prevent further leakage or spillage if safe to do so. Spills should be contained and absorbed with inert material. Place in a suitable container, cover container, and prepare container for disposal. Dispose of in accordance with all government regulations.

## **SECTION VII: Handling and Storage**

**Precautions for Safe Handling:** For professional use only. Read the label before use and observe all labeled precautions. Keep out of reach of children. This product should be handled under conditions of good industrial hygiene and in conformity with any local regulations in order to avoid unnecessary exposure. Use only in a well-ventilated area. Do not breathe mist, vapor, or spray. Avoid contact with skin or eyes.

**Conditions for Safe Storage, Including Any Incompatibilities:**

**Storage Conditions**– Store in a well-ventilated area. Avoid heating or freezing. Keep container tightly closed. Store locked up.

**Incompatible Materials** – Not known

## **SECTION VIII: Exposure Controls/Personal Protection**

**Control Parameters:**

| Occupational Exposure Limits |          |           |
|------------------------------|----------|-----------|
| Component                    | OSHA PEL | ACGIH TLV |
| Ethanol (CAS #: 64-17-5)     | 1000 ppm | 1000 ppm  |

**Exposure Controls:**

**Appropriate Engineering Controls** – Use exhaust ventilation to control airborne exposure.

**Individual Protection Measures (PPE) –**

**Skin Protection** – The type of protective equipment must be selected according to the concentration and amount of the substance in use at the specific workplace. Wear gloves and protective clothing as necessary to prevent skin contact. Refer to personal protective equipment manufacturer's instructions to ensure that it is suitable for the ingredients in this product and use limitations.

**Eye Protection** – Wear eye and face protection. Wear goggles or safety glasses that meet ANSI Z87 standards and/or are tested and approved under appropriate government standards.

**Respiratory Protection** – If engineering controls are insufficient, wear NIOSH/MSHA approved respirator. Refer to respirator manufacturer's instructions for determining use procedures and limitations.

**SECTION IX: Physical and Chemical Properties**

| Information on Physical and Chemical Properties: |                                           |
|--------------------------------------------------|-------------------------------------------|
| Appearance:                                      | Yellow liquid                             |
| Odor:                                            | Lemon                                     |
| Odor threshold:                                  | Not known                                 |
| pH:                                              | 7-8                                       |
| Melting point/freezing point:                    | Not known                                 |
| Initial boiling point and boiling range:         | 212°F (100°C), not known                  |
| Flash point:                                     | 200°F (93°C) (PMCC)                       |
| Evaporation rate (Butyl Acetate =1):             | Not known                                 |
| Flammability (solid, gas):                       | Not known                                 |
| Flammability limits in air:                      | LEL – not determined; UEL – not flammable |
| Vapor pressure:                                  | Like water                                |
| Vapor density (Air = 1):                         | Heavier than air                          |
| Solubility(ies):                                 | Complete in water                         |
| Partition coefficient: n-octanol/water           | Not known                                 |
| Auto-ignition temperature:                       | Not known                                 |
| Decomposition temperature:                       | Not known                                 |
| Viscosity:                                       | Not known                                 |
| Specific gravity (Water = 1):                    | ~0.998                                    |
| Explosive properties:                            | Not known                                 |
| Oxidizing properties:                            | Not known                                 |

**SECTION X: Stability and Reactivity**

**Reactivity:** Not known

**Chemical Stability:** Stable

**Possibility of Hazardous Reactions:** Not known

**Hazardous Polymerization:** Will not occur

**Conditions to Avoid:** Not known

**Incompatible Materials:** Not known

**Hazardous Decomposition Products:** Not known

## **SECTION XI: Toxicological Information**

**Relevant Route of Exposure/Target Organs:** Dermal, Eyes, Respiratory System

**Symptoms:** Causes skin irritation. Causes eye irritation. May cause respiratory irritation.

**Delayed and Immediate Effects:**

**Eye Effects** – Causes eye irritation.

**Skin Effects** – Causes skin irritation.

**Inhalation** – Vapors may irritate respiratory passages.

**Ingestion** – Not determined

**Chronic Effects (Short and Long Term Exposure):** Not known

**Numerical Measures of Toxicity:**

Ethoxylated propoxylated C12-14 alcohols: Oral LD<sub>50</sub> (rat) = 3,530 mg/kg

**Carcinogenicity:** Components are not listed as carcinogens by the NTP, IARC, or OSHA at 29 CFR 1910 Subpart Z.

**Mutagenicity:** No data available

**Reproductive Toxicity:** No data available

## **SECTION XII: Ecological Information**

**Ecotoxicity:** No data available

**Persistence and Degradability:** Not known

**Bioaccumulative Potential:** Not known

**Mobility in Soil:** Not known

**Other Adverse Effects:** Not known

## **SECTION XIII: Disposal Considerations**

Do not discharge into waterways or sewer systems without proper authority. Dispose of in accordance with all government regulations.

## **SECTION XIV: Transport Information**

**DOT (US)**

Not regulated

**ICAO/IATA**

UN number: UN 3082

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Alkyl dimethyl benzyl ammonium chloride C12-18)

Hazard class: 9

Packing group: III

Marine pollutant: Yes

## **SECTION XV: Regulatory Information**

**US State Regulations:**

**California Proposition 65** – No listed components

**US Federal Regulations:**

**TSCA Inventory Status** – Registered. TSCA registry names:

Alkyl dimethyl benzyl ammonium chloride (C12-18): C12-18-Alkyldimethylbenzyl ammonium chlorides

Alkyl dimethyl ethylbenzyl ammonium chloride (C12-18): C12-18-Alkyldimethyl(ethylbenzyl) ammonium chlorides

**SARA Title III Section 302** – No reportable components

**SARA Title III Section 304** – No reportable components

**SARA Section 311/312 Hazard Categories** – Immediate (Acute)

**SARA Title III Section 313** – This product does not contain components that are subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 (EPCRA or SARA Title III) and 40 CFR 372.

CERCLA RQ – No reportable components

International Regulations: Not determined

## **SECTION XVI: Other Information**

**Supersedes:** 28 May 2015

**Date Revised:** 04 December 18

**Abbreviations:**

|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
| ACGIH            | American Conference of Industrial Hygienists                                      |
| ANSI             | American National Standards Institute                                             |
| CAS              | Chemical Abstracts Service                                                        |
| CERCLA           | Comprehensive Environmental Response Compensation and Liability Act               |
| CFR              | US Code of Federal Regulations                                                    |
| CO <sub>2</sub>  | Carbon dioxide                                                                    |
| DOT              | US Department of Transportation                                                   |
| EPCRA            | Emergency Planning and Community Right-to-Know Act                                |
| HCS              | Hazard Communication Standard                                                     |
| IARC             | International Agency for Research on Cancer                                       |
| ICAO/IATA        | International Civil Aviation Organization/International Air Transport Association |
| LD <sub>50</sub> | Lethal dose to 50% of exposed laboratory animals                                  |
| LEL              | Lower explosive limit                                                             |
| MSHA             | US Mine Safety and Health Administration                                          |
| NIOSH            | US National Institute of Occupational Safety and Health                           |
| n.o.s.           | Not otherwise specified                                                           |
| NTP              | National Toxicology Program                                                       |
| OSHA             | US Occupational Safety Health Administration                                      |
| PEL              | Permissible exposure limit                                                        |
| PMCC             | Pensky-Martens closed-cup                                                         |
| PPE              | Personal protective equipment                                                     |
| ppm              | Parts per million                                                                 |
| RQ               | Reportable quantity                                                               |
| SARA             | Superfund Amendments and Reauthorization Act                                      |
| SDS              | Safety data sheet                                                                 |
| TLV              | Threshold limit value                                                             |
| TSCA             | Toxic Substances Control Act                                                      |
| UEL              | Upper explosive limit                                                             |
| UN               | United Nations                                                                    |
| US/USA           | United States                                                                     |
| WT               | Weight                                                                            |

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