



Vehicle Care Products

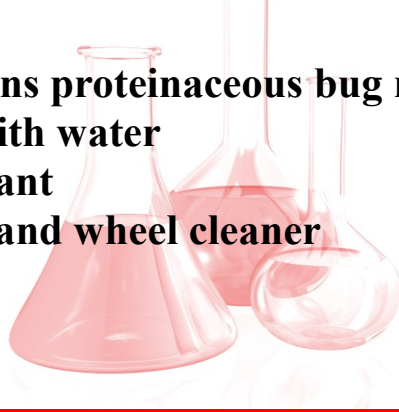


# AGRESOL DEBUGGER

This bug remover is an economical product that works well in rural areas where insect residue on vehicles is heavy. This is an excellent product for all vehicle surfaces where permeated grease, oil, carbon, and baked-on bugs need to be removed.

## FEATURES & BENEFITS

- Softens and loosens proteinaceous bug residue
- Can be diluted with water
- Hard water tolerant
- Works as a prep and wheel cleaner
- Free Rinsing
- Biodegradable



## DIRECTIONS

**Pressure Washing:** When pressure washing, use a chemical injector that dilutes Agresol Debugger at a ratio of 1:10 to 1:30.

**Temperature:** Agresol Debugger will remove soil and bugs at all temperatures, however higher temperatures will greatly improve performance.

**For Best Results:** Apply at high temperatures (140° - 160°F) and high pressure (above 600 psi), to a dry surface and rinse with high-pressure water.

1. Spray the diluted Agresol Debugger on the surface to be cleaned, working from bottom to top to avoid streaking
2. Rinse thoroughly with high-pressure water, working from top to bottom
3. Hold pressure nozzle 12" from vehicle or equipment surface

**General Cleaning:** Agresol Debugger can be used with a bucket and brush for cleaning floors, walls, vehicles and concrete surfaces. Dilute Agresol Debugger with water at a ratio of 1:10 to 1:30, depending on soil level. Rinse thoroughly with clean water.

NOTE: See reverse side for MSDS information and General Cautions for Use

Visit our website at [www.ver-techlabs.com](http://www.ver-techlabs.com)

# MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

**SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION**  
**Identity (As Used on Label and List):** Agresol Debugger  
**Product Class:** Water-based cleaner  
**Emergency Telephone Number:** 800-535-5053 (INFOTRAC)  
**Telephone Number for Information:** 763-509-7937  
**Manufacturer's Name and Address:**  
Ver-Tech Labs  
6801 Bleck Drive  
Rockford, MN 55373

**SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS**  
**Hazardous Components (Specific Chemical Identity):**

Chemical	Common Name(s)
A	2-Butoxy ethanol CAS #6834-92-0
B	Sodium Tripolyphosphate CAS #7758-29-4
C	Trisodium Phosphate Dodecahydrate CAS #10101-89-0
D	Water CAS #7732-18-5

**SECTION III - HAZARDS IDENTIFICATION**  
**Emergency Overview**  
**Appearance and Odor:** Yellow liquid, Mild odor  
**Primary Hazards:** Irritant

**Potential Health Hazards**  
**Route(s) of Entry:** Skin Absorption: X Ingestion: X Inhalation: X  
**Eye:** May cause irritation on contact.  
**Skin:** May cause irritation on contact. 2-Butoxy ethanol may be absorbed through skin  
**Ingestion:** May be harmful if swallowed.  
**Inhalation:** Overexposure to butyl vapors may be harmful.  
**Signs and Symptoms of Exposure:** Eye Contact: Possible stinging, burning, tearing and redness. **Skin Contact:** Irritation. **Inhalation:** Overexposure to 2-Butoxy ethanol (butyl) vapors may cause central nervous system effects including drowsiness, headache, nausea and dizziness.  
**Carcinogenicity:** NTP? No IARC Monographs? No  
**OSHA Regulated?** No  
**Target Organ (s):** Eyes, skin, liver, kidneys, spleen, lymphoid system, respiratory system and blood.  
**Medical Conditions Generally Aggravated by Exposure:** Pre-existing abnormalities of blood, liver and kidneys.  
**Health Hazards, Chronic:** Overexposure to 2-Butoxy ethanol may cause damage to one or more of the target organs listed above.

**SECTION IV - FIRST AID MEASURES**  
**Emergency and First Aid Procedures:**  
**For Eye Contact:** Immediately flush eyes with sanitary eye wash solution or running water for at least 15 minutes. Obtain medical attention. Continue to flush eyes until medical attention arrives. **If Swallowed:** Drink two glasses of water and immediately call a physician. **For Skin Contact:** Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse. Never give anything by mouth to an unconscious person. **For Overexposure to Vapors:** Remove victim to fresh air, keep warm, quiet and contact a physician.  
**Sources Used:** Raw material data, general toxicology from the trade for similar products.

**SECTION V - FIRE FIGHTING MEASURES**  
**Flammability:** No **Autoignition Temperature:** N. Ap.  
**Flash Point (method used):** None  
**Flammable Limits:** N. Ap. LEL UEL  
**Extinguishing Media:** N. Ap.  
Water? Foam? Water Fog?  
Alcohol Foam? CO2? Dry Chemical?  
Vaporizing Liquid? Other?  
**Special Fire Fighting Procedures:** N. Ap.  
**Unusual Fire and Explosion Hazards:** N. Av.  
**TDG Flammability Classification:** Non-flammable  
**Sensitivity to Mechanical Impact:** None  
**Sensitivity to Static Discharge:** None

**SECTION VI - ACCIDENTAL RELEASE MEASURES**  
**Steps to be Taken in Case Material is Released or Spilled:**  
Dike and contain spill with inert material (sand, earth, etc). Collect spill with mop, absorbent material (example: floor-dri) or vacuum. Thoroughly rinse affected area with water.

**SECTION VII - HANDLING AND STORAGE**  
**Precautions to be Taken in Handling and Storing:**  
Normal care in handling and storage.  
**Other Precautions:** Keep out of reach of children. Keep from freezing.

**SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION**  
**Respiratory Protection (Specify Types):** Not required where ventilation is sufficient to maintain 2-Butoxy ethanol vapor level below listed TLV. Use NIOSH/MSHA approved organic vapor respirator in areas where vapor level exceeds TLV.  
**Ventilation:** Local Exhaust: Not required Special: Not required  
**Mechanical (General):** As required to keep vapor levels below TLV & PEL, listed in Section XI. Other: Not required  
**Protective Gloves:** Natural rubber or synthetic.  
**Eye Protection:** Approved safety goggles or shield. **Footwear:** N. Ap..  
**Other Protective Clothing or Equipment:** Not required  
**Work/Hygienic Practices:** Do not contaminate food or beverages with cleaning chemicals.

**SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS**  
**Boiling Point:** Approximately 212°F **pH:** < 12  
**Specific Gravity (H20) = 1:** 1.05 **% Volatile:** 60 - 100  
**Vapor Density (Air = 1):** > 1 **Odor Threshold:** N. Av.  
**Evaporation Rate (Butyl Acetate = 1):** N. Av. **Oil/Water Distribution**  
**Solubility in Water:** Complete **Coefficient:** N. Av.  
**Vapor Pressure (MM HG):** N. Av.  
**Melting Point:** N. Ap.

**SECTION X - STABILITY AND REACTIVITY**  
**Stability:** Unstable: Stable: X  
**Conditions to Avoid:** N. Ap.  
**Incompatibility (materials to avoid):** N. Av.  
**Hazardous Decomposition or By-products:** N. Av.  
**Hazardous Polymerization:** May occur: Will not occur: X  
**Conditions to Avoid:** N. Ap.

**SECTION XI - TOXICOLOGICAL INFORMATION**

Chemical	OSHA PEL	ACGIH TLV	Recom.	LD50	LC50
A	25 ppm (skin)	25 ppm (skin)	25 ppm (skin)	1.48 g/kg (rat, oral)	N. Av.
B	N. Ap.	N. Ap.	N. Av.	5,400 mg/kg (rat, oral)	.39 mg/l (rat, 4H)
C	N. Av.	N. Av.	N. Av.	6,500mg/kg (rat, oral)	N. Av.
D	None	None	N. Av.	N. Av.	N. Av.

**Teratogen, Mutagen, Reproductive Toxin Status:** No data with known relevance to humans.  
**Toxicologically Synergistic Products:** N. Av.

**SECTION XII - ECOLOGICAL INFORMATION**  
**Ecotoxicological Information:** N. Av.  
**Chemical Fate Information:** N. Av.

**SECTION XIII - DISPOSAL CONSIDERATIONS**  
**Waste Disposal Method:**  
Dispose of spilled material in accordance with local, state and federal regulations. Waste from normal cleaning procedures may be sewer, depending on the materials and/or contaminants being cleaned as well as state, federal and local sewer commission regulations.  
**RCRA Hazard Class:** None

**SECTION XIV - TRANSPORT INFORMATION**  
**Shipping Classification:** Compound, cleaning liquid, N.O.I.  
**UN Number:** N. Ap.  
**Packing Group:** N. Ap.

**SECTION XV - PREPARATION DATA**  
**Prepared By:** Health and Safety Department  
**Telephone Number:** 763-509-7937  
**Date:** 10-11-2007

**SECTION XVI - REGULATORY INFORMATION**  
**US Federal Regulations**  
**TSCA Status:** All ingredients listed.  
**CERCLA Reportable Quality:** 5,000 lbs. for Trisodium Phosphate  
**SARA Title III**  
**Section 302 Extremely Hazardous Chemicals:** None  
**Section 311/312 Hazard Category:** Immediate health, chronic health  
**Section 313 Toxic Chemicals:** Glycol ether

**SECTION XVII - OTHER INFORMATION**  
None  
N. Ap. - Not Applicable; N. Av. - Not Available

**NFPA SYSTEM**  
1 A. Health Hazard 0 A. Fire Hazard 0 A. Reactivity Hazard

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE, HOWEVER NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. MINUTEMAN INTERNATIONAL, INC. ASSUMES NO RESPONSIBILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE TO VENDEES, USERS OR THIRD PARTIES CAUSED BY THE MATERIAL. SUCH VENDEES OR USERS ASSUME ALL RISKS ASSOCIATED WITH THE USE OF THE MATERIAL.