

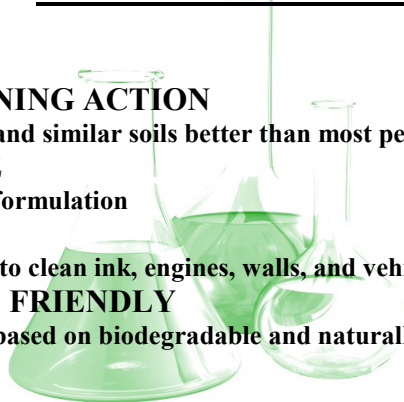


# CLEAN FLEX

**Clean Flex** is a water based cleaner that will effectively remove petroleum based soils from a wide variety of vehicles and engines. This product is designed to be safer for the environment and uses technology based on terpenes that are naturally occurring solvents. **Clean Flex** is used in the trucking, industrial and railroad industries.

## FEATURES & BENEFITS

- **POWERFUL CLEANING ACTION**  
Cuts grease and similar soils better than most petroleum based solvents
- **NON-FLAMMABLE**  
Water-base formulation
- **VERSATILE**  
Can be used to clean ink, engines, walls, and vehicles
- **ENVIRONMENTAL FRIENDLY**  
Technology based on biodegradable and naturally occurring solvents



## DIRECTIONS

### **Ink and Printing Industry:**

Use at full strength. Rinse thoroughly with water.

### **Engine Degreasing:**

Dilute 1:7 in water. Brush, wipe or spray **Clean Flex** solution onto soiled areas, agitate as necessary. Rinse thoroughly with water, preferably high pressure or steam.

### **Vehicle Cleaning:**

Dilute 1:10 in water. Brush, wipe or spray **Clean Flex** solution onto vehicle. Brush as necessary. Rinse thoroughly with water, preferably high pressure or steam.

Dilutions are recommendations only, actual dilution amount will vary with soil level.

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

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# MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

## SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

**Identity (As Used on Label and List):** Clean Flex (CLE130)  
**Product Class:** Water-based degreaser  
**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 #111-76-2
B	Sodium Metasilicate CAS #9004-82-4
C	Nonylphenol ethoxylates CAS #9016-45-9
D	Dodecylbenzene sulfonic acid CAS #27176-87-0
E	D-limonene CAS #5989-27-5
F	Water CAS #7732-18-5

## SECTION III - HAZARDS IDENTIFICATION

### Emergency Overview

**Appearance and Odor:** Blue liquid, solvent odor.

**Primary Hazards:** Irritant

### Potential Health Hazards

**Route(s) of Entry:** Skin Absorption: X Ingestion: X Inhalation: X

**Eye:** May cause irritation burns.

**Skin:** May cause irritation burns.

**Ingestion:** May be harmful if swallowed.

**Inhalation:** Overexposure to 2-Butoxy ethanol (butyl) vapors may cause central nervous system effects including drowsiness, headaches, nausea and dizziness.

**Signs and Symptoms of Exposure:** Irritation on direct contact.

**Carcinogenicity:** NTP? Yes (NTA)

**OSHA Regulated?** No

**IARC Monographs?** No

**Target Organ (s):** 2-butoxy ethanol ("butyl"): Liver, kidneys, lymphoid system, skin, blood, eyes and respiratory system.

**Medical Conditions Generally Aggravated by Exposure:** N. Av.

**Health Hazards, Chronic:** Overexposure to 2-Butoxy ethanol (butyl) may cause damage to one or more of the target organs listed above.

## SECTION IV - FIRST AID MEASURES

### Emergency and First Aid Procedures:

**If Swallowed:** Do not induce vomiting. Drink water in large amounts and call a physician immediately. Never give anything by mouth to an unconscious person. **Eye Contact:**

Flush eyes with running water for at least 15 minutes. If irritation persists, obtain medical attention. **Skin Contact:** Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse.

**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.

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**Extinguishing Media:** N. Ap.

Water?	Foam?	Water Fog?
Alcohol Foam?	CO <sub>2</sub> ?	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

**Ventilation:** Local Exhaust: Not required **Special:** Not required  
**Mechanical (General):** Ventilate to keep vapor levels below PEL and TLV, listed in Section XI. **Other:** Not required

**Protective Gloves:** Natural rubber or synthetic.

**Eye Protection:** Approved safety goggles or glasses. **Footwear:** Chemical resistant

**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 (H<sub>2</sub>O) = 1:** 1.03

**% Volatile:** > 60

**Vapor Density (Air = 1):** > 1

**Odor Threshold:** N. Av.

**Evaporation Rate (Butyl Acetate = 1):** N. Av.

**Oil/Water Distribution Coefficient:** N. Av.

**Solubility in Water:** Complete

**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	1.48 g/kg (rat, oral)	N. Av.
B	2mg/M3	2mg/M3	N. Ap.	800 mg/kg (rat, oral)	N. Av.
C	N. Ap.	N. Ap.	N. Av.	2100 mg/kg (rat, oral)	N. Av.
D	N. Ap.	N. Ap.	N. Ap.	3,400 mg/kg (rat, oral)	>200 mg/L (rat, 1H)
E	N. Ap.	N. Ap.	N. Av.	5g/kg (rat, oral)	N. Av.
F	N. Ap.	N. Ap.	N. Av.	N. Ap.	N. Ap.

**Teratogen, Mutagen, Reproductive Toxin Status:** No 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:** N. Ap.

## SECTION XIV - TRANSPORT INFORMATION

**Shipping Classification:** Cleaning Compound 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:** N. Av.

### SARA Title III

**Section 302 Extremely Hazardous Chemicals:** None

**Section 311/312 Hazard Category:** Immediate health, chronic health.

**Section 313 Toxic Chemicals:** 2-butoxy ethanol (glycol ether)

## SECTION XVII - OTHER INFORMATION

NOTICE State of California

Warning: This product may contain chemicals known to the State of California to cause cancer or reproductive defects as trace impurities in the standard industrial materials used in the manufacturing of this product.

N. Ap. - Not Applicable; N. Av. - Not Available

## NFPA SYSTEM

2 A. Health Hazard 0 A. Fire Hazard 0 A. Reactivity Hazard

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