



# Orange Plus

NFPA/HMIS : Health -1  
 Flammability - 2  
 Reactivity - 0

Complies With USDL Safety and Health Regulations, (29 CFR 1910.200)  
 US Department Of Labor  
 Material Safety Data Sheet

## SECTION - 1 CHEMICAL AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Orange Plus  
**PRODUCT USE:** Degreaser

American Formula  
 4720 Frederick Drive SW  
 Atlanta, GA 30336

**EMERGENCIES:** 1-800-255-3924  
**REVISION DATE:** 02/04/05

## SECTION - 2 COMPOSITION ON INGREDIENTS

CAS#	CHEMICAL NAMES	Wt%	TLV (UNITS)
5989-27-5	d-Limonene	<50	NE
64742-47-8	Aliphatic Solvent	<50	400ppm TWA

## SECTION - 3 HAZARDS INFORMATION

**Primary Route(s) of Entry:** Skin contact /absorption and inhalation  
**Signs and Symptoms of Overexposure:** Gastrointestinal irritation (nausea, vomiting, diarrhea), irritation to nose, throat, and respiratory tract.

**Target Organ Effects:** Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals and may aggravate pre-existing disorders or these organs in humans: chronic ingestion may cause kidney and liver lesions at high doses.

### IMMEDIATE HEALTH EFFECTS

**EYES:** Exposure may cause noticeable pain, and severe irritation and transient corneal injury.

**SKIN:** Causes chemical burns. Harmful contact may not cause immediate pain.

**INHALATION:** Exposure to vapor or mist is possible. Short term inhalation is no likely to cause harmful effects: breathing large amounts may be harmful. Symptoms are more typically seen at air concentrations exceeding the recommended exposure limits.

**INGESTION:** Harmful or fatal if swallowed. Causes chemical burns to the mouth, throat and stomach.

### REPRODUCTIVE / DEVELOPMENTAL INFORMATION

No Data

**CARCINOGENIC INFORMATION:** This material is not listed as a carcinogen by IARC, NTP, or OSHA

**LONG TERM EFFECTS:** No Data

## SECTION - 4 FIRST AID MEASURES

**EYES:** Immediately flush with water. Remove contact lenses, if applicable, and continue flushing with water for 15 minutes. Call a physician immediately.

**SKIN:** Immediately flush with water for 15 minutes. Call physician if irritation persists. Completely decontaminate clothing, shoes, and leather goods before reuse or discard.

**INHALATION:** If symptoms develop move victim to fresh air. If symptoms persist, call a physician.

**INGESTION:** Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water or milk. Call a physician immediately. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness or is convulsing.

## SECTION - 5 FIRE FIGHTING MEASURES

**Flash Point:** 122° F (C.C. method)

**Explosive**

**Limits:** Not Applicable

**Autoignition Temperature:** Not Applicable

**Hazardous Products of Combustion:** Oxides of carbon, oxides of nitrogen, and ammonia

**Extinguishing Media:** Not Applicable

**Fire Fighting Instructions:** Avoid contact with this material. Avoid walking in spilled material. Wear protective clothing for skin and eyes

## SECTION - 6 ACCIDENTAL RELEASE MEASURES

**Small Spill:** Absorb with an inert solid and scoop up for disposal, then rinse soiled area with water down the drain.

**Large Spill:** Stop leak at the source and collect into a suitable container, then treat as a small spill.

## SECTION - 7 HANDLING AND STORAGE

**Handling:** Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

**Storage:** Store in a cool, dry place. Keep container closed when not in use.

## SECTION - 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**Eye Protection:** Chemical Splash goggle in compliance with OSHA regulations are advised: however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

**Skin Protection:** Wear rubber gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**Respiratory Protection:** If workplace exposure limits of product or any component are exceeded (see exposure guidelines), NIOSH/OSHA approved air supplied respirator is advised in the absence of proper environmental control. OSHA relations also permit other NIOSH/OSHA respirators (negative pressure type) under specific conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

**Engineering Controls:** Provide sufficient mechanical (general and local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

## SECTION - 9 PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and odor:** Thin, orange liquid with a citrus odor

**pH Concentrate:** no applicable

**Vapor Pressure:** Unknown

**Vapor Density:** Unknown

**Boiling Point:** 212 Degrees Fahrenheit

**Solubility in Water:** none

**Percent Volatile:** 100

**Specific Gravity:** (H<sub>2</sub>O =1) 0.84 +/- 0.02

## SECTION - 10 STABILITY AND REACTIVITY

**Chemical Stability:** Stable

**Conditions to Avoid:** Temperature Extremes

**Incompatibility:** Chlorine Bleach, Oxidizers, Acids

**Hazardous Decomposition:** Will not Occur

**Hazardous Polymerization:** Will not Occur

**SECTION - 11 TOXICOLOGICAL INFORMATION**

No Data Available

**SECTION - 12 ECOLOGICAL INFORMATION**

No Data Available

**SECTION - 13 DISPOSAL CONSIDERATION**

**Waste Disposal Information:** Dispose of in accordance with all applicable Federal, State, and Local regulations.

**RCRA Information:** If this material becomes a waste, it would be considered hazardous under 40 CFR 261.22. and would be classified as EPA Waste Number D002.

**SECTION - 14 TRANSPORT INFORMATION****DOT Information 49 CFR 172.10**

DOT Description:  
33440 Class 55

**Reportable Quantity (RQ) - 49 CFR 172.101**

Not Applicable

**SECTION - 15 REGULATORY INFORMATION****US Federal Regulations:**

TSCA (Toxic Substances Control Act) Status  
TSCA (United States) The intentional ingredients  
of this product are listed.  
CERCLA RQ - 40 CFR 355 Appendix A  
None  
SARA 302 Components 40 CFR Appendix A  
None

Section 311/312 Hazard Class 40 CFR 370.2  
Immediate (X) Delayed (X) Fire ( )  
Reactivity ( ) Sudden Release of Pressure ( )  
SARA 313 Components - 40 CFR 372.65

CAS #	Chemical Names	%
None		

**State and Local Regulations**

California Proposition 65: None  
California SCAQMD Rule 443.1 VOC's: > 250g/L  
North Carolina Administrative Code 2D.1104 and 2B.0610: None  
South Carolina Regulation 62.5 Standard Number 8  
Ethylene Glycol Monobutyl Ether < 16.0

**SECTION - 16 OTHER INFORMATION**

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable and suitable to their circumstances. This information was compiled from current manufacturer's MSDS's of the component parts of the product. as well as other sources, such as:

Code of Federal Regulations 29, Revised as of July 1, 1994.  
Code of Federal Regulations 40, Revised as of July 1, 1994.  
ACGIH, Guide to Occupational Exposure Values, 1996.  
ANSI Z129.1-1994, Precautionary Labeling for Hazardous Industrial Chemicals.  
Hazard Communication Handbook, A Right To Know Compliance Guide. Craig A. Moyer & Michael Francis. Clark Broadman Company. Ltd. New York, NY 1992  
RCRA Regulations and Keyword Index, Compiled and Published by McCoy and Associates, Inc Lakewood, Colorado. 1992.