

MATERIAL SAFETY DATA SHEET
(Prepared According to 29 CFR 1910.1200)

DATE PREPARED: 3/1/2007

CODE: 2102

SECTION 1 - PRODUCT IDENTIFICATION			
Distributor Actiblend Systems, A Division of Nuance Solutions	Emergency Phone 800.309.5869		
Address 900 East 103rd Street, Chicago, Illinois 60628	Prepared By: DR		
Trade Name FORMULA FOURTEEN FINISHED CONCENTRATE	Product Type Citrus Cleaner/Degreaser		
SECTION 2 - INGREDIENTS			
CHEMICAL NAME/COMMON NAME	CAS NO.	PERCENT(optional)	TLV(Source)
Potassium Hydroxide	1310-58-3	1-5%	2ppm (TWA;STEL)
Nonionic Surfactant	9016-45-9	1-5%	Not Established
Sodium Metasilicate	6834-92-0	1-5%	Not Established
D-limonene	5989-27-5	1-5%	Not Established
SARA HAZARD: TITLE III, SECTION 313: Contains no Section 313 listed substances subject to reporting.			
SECTION 3 - PHYSICAL DATA			
Boiling point (°F.) 212°F	Specific Gravity (H2O=1.0) 1.04 ± 0.005	pH 12.4 ± 0.5	
Vapor Pressure (mm Hg) Not Determined	Vapor Density (Air=1) Not Determined		
Solubility in water <input checked="" type="checkbox"/> Complete <input type="checkbox"/> Insoluble <input type="checkbox"/> Emulsifiable (or Dispersible) <input type="checkbox"/> Slight (or Partial)			
Evaporation Rate (vs. H2O) <input type="checkbox"/> Faster <input type="checkbox"/> Slower <input checked="" type="checkbox"/> About the Same	Appearance and Odor Clear colored liquid with citrus odor.		
SECTION 4 - FIRE AND EXPLOSION HAZARD DATA			
Flash Point (T.C.C.) °F. <input checked="" type="checkbox"/> None to Boiling	Flammable Limits N.A. Upper Lower		
Extinguishing Media Product is non-combustible. Water Spray(Fog), Dry Chemical; CO2; or Foam may be used where product is stored.			
Special Firefighting Procedures Do not enter confined fire-spaces without protective clothing and self-contained air supply.			
Unusual Fire and Explosion Hazards None			
SECTION 5 - REACTIVITY DATA			
Stability Stable	Incompatibility Strong Acids, Strong Oxidizers		
Hazardous Decomposition Products Burning may produce oxides of carbon and other substances.			
SECTION 6 - HEALTH HAZARD DATA			
Primary Routes of Exposure <input checked="" type="checkbox"/> Eye <input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Oral <input type="checkbox"/> Inhalation <input type="checkbox"/> Other			
Signs and Symptoms of Overexposure (Acute)	Direct contact with eyes may cause mild to moderate irritation with local redness and swelling of conjunctiva. Prolonged or repeated skin exposure may cause irritation & drying / defatting of skin . Ingestion may cause irritation of mouth, throat and stomach with possible nausea and vomiting.		
Signs and Symptoms of Overexposure (Chronic):	Slight skin absorption hazard. Extensive, prolonged and repeated skin exposure may result in absorption of potentially harmful amounts.		
Medical Conditions Aggravated by Overexposure An existing dermatitis.			
Carcinogen or Suspect Carcinogen Ingredients <input type="checkbox"/> NTP <input type="checkbox"/> IARC <input type="checkbox"/> OSHA <input checked="" type="checkbox"/> NONE			
SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES			
Eyes	Flush eyes with water for at least 15 minutes and call a physician immediately.		
Skin	Wash affected areas with large amounts of soap and water. If irritation persists call a physician.		
Ingestion	Do NOT induce vomiting. Dilute by drinking water. Call a physician immediately.		
Inhalation	Remove to fresh air. Start artificial respiration if necessary. Oxygen may be administered. Call a physician.		
SECTION 8 - SPECIAL PROTECTION INFORMATION			
Respiratory Protection Not required under normal use conditions with ventilation sufficient to control vapors/mists below regulatory limits.			
Ventilation Requirements None <input type="checkbox"/> Local Exhaust <input type="checkbox"/> Mechanical <input type="checkbox"/> Other	Eye Protection Safety Glasses/Goggles		
Protective Gloves Rubber/PVC <input type="checkbox"/> Other Protective Clothing	Normal work clothing covering arms and legs.		
SECTION 9 - SPILL OR LEAK PROCEDURES			
Steps to be Taken If Released or Spilled	Stop leak if you can do it without risk. Dike ahead of large spills to prevent run-off. Mop, pump or take up with sand or other inert absorbent and reclaim into containers for reuse, recycle or proper disposal.		
Waste Disposal Methods	Dispose of in an approved waste facility according to Federal, State and local regulations.		
SECTION 10 - STORAGE AND HANDLING INFORMATION			
Precautions to be Taken In Handling and Storage	No special requirements if product is handled according to good manufacturing practices. Keep container closed when not in use. Wash thoroughly after handling. Use with adequate ventilation. DOT Classification: Not Regulated		

The health hazards given on this Material Safety Data Sheet apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of overexposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.

HMIS
HAZARD
RATING

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	X

0 - LEAST
1 - SLIGHT
2 - MODERATE
3 - HIGH
4 - EXTREME