

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME: Citra Clean</b> GENERAL USE: Cleaning agent PRODUCT DESCRIPTION: Amber liquid, citrus orange odor		<b>SUPERIOR SOLUTIONS</b>
MANUFACTURER'S NAME Superior Solutions	DATE PREPARED: May 28, 2009 SUPERSEDES: New	Page 1 of 4
ADDRESS (NUMBER, STREET, P.O. BOX) 3991 Hwy. 171 (CITY, STATE AND ZIP CODE) DeRidder, LA 70634	COUNTRY USA	TELEPHONE NUMBER FOR INFORMATION (337) 794-1829 EMERGENCY TELEPHONE NUMBER (337) 794-1829

## SECTION 2 - HAZARDS IDENTIFICATION

<b>EMERGENCY OVERVIEW</b> Alkaline liquid, prolonged contact may cause skin & eye irritation. Ingestion may be harmful and cause gastric distress. Hazard Symbols for this product - Xn, Risk Phrases - R20/21/22, 36/38			
<b>POTENTIAL HEALTH EFFECTS</b> INHALATION: Irritating to upper respiratory tract and mucous membranes; may cause headache, dizziness, nausea, vomiting and malaise.  SKIN: Irritation may result from contact; prolonged contact may cause moderate reddening, swelling and possible necrosis.  EYES: Contact with eyes is painful and irritating and may cause severe irritation, associated with redness and swelling of the conjunctiva.  INGESTION: Irritating to digestive tract; may cause gastric distress, stomach pains and vomiting; may result in red blood cell hemolysis.			
CARCINOGENICITY	NTP?	No	IARC MONOGRAPHS? No      OSHA REGULATED? No

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS #	EINECS #	% (by weight)	OSHA PEL		ACGIH TWA		RQ LBS
				PPM	MG/M3	PPM	MG/M3	
Ethylene glycol monobutyl ether (a,b)	111-76-2	203-905-0	5 - 15	50	240	20		
Sodium hydroxide (c,d)	1310-73-2	215-185-5	0.5 - 1.5		2 C		2 C	1000
Potassium hydroxide (c,d)	1310-58-3	215-181-3	0.5 - 1.5		2 C		2 C	1000
Sodium phosphate, tribasic (STPP) (c)	7758-29-4	231-838-7	1 - 5		5		5	5000
d-Limonene, Technical grade	5989-27-5	227-813-5	0.5 - 1.5	not established				

(a,c) See Section 15

(b) Indicates an employee's skin exposure shall be prevented or reduced to the extent necessary in the circumstances through the use of gloves, coveralls, goggles, or other appropriate equipment.

(d) A "C" in the OSHA PEL or ACGIH TWA column indicates ceiling limits, the concentration that should not be exceeded during any part of the working exposure.

**MATERIAL SAFETY DATA SHEET**PRODUCT NAME: Citra Clean  
May 28, 2009

Page 2 of 4

**SECTION 4 - FIRST AID MEASURES**

**INHALATION:** Remove affected person to fresh air; wash mouth and nasal passages with water repeatedly; if breathing difficulties persist seek medical attention.

**SKIN:** Wash contacted area with soap and water; DO NOT attempt to neutralize with chemical agents; if irritation persists, seek medical attention.

**EYES:** Check for and remove contact lenses. Immediately flush eyes for 15 minutes in clear running water while holding eyelids open; seek medical attention immediately.

**INGESTION:** Drink large quantities of water or milk; DO NOT induce vomiting; never give anything by mouth to an unconscious person; seek medical attention immediately.

**SECTION 5 - FIRE FIGHTING MEASURES****FLASH POINT (METHOD USED)**

Non-flammable

**FLAMMABLE LIMITS**

LEL: Not applicable

UEL: Not applicable

**AUTOIGNITION TEMPERATURE:**

Not determined

**NFPA CLASS:** **None**

**GENERAL HAZARDS:** Product is alkaline. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide.

**EXTINGUISHING MEDIA**

Carbon dioxide, water, water fog, dry chemical, chemical foam.

**FIRE FIGHTING PROCEDURES**

Keep containers cool with water spray to prevent container rupture due to steam buildup; floor will become slippery if material is released. Material is alkaline and will irritate the eyes if product is allowed to directly contact the eyes.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

None

**HAZARDOUS COMBUSTION PRODUCTS**

Smoke, fumes or vapors, oxides of carbon.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Material is alkaline and will irritate the eyes if product is allowed to directly contact the eyes. Wash small spills to sanitary sewer. Confine large spill, soak up with approved absorbent, shovel product into approved container; for spills in excess of allowable quantities (RQ) notify the National Response Center (800) 424 - 8802; refer to SARA Title III, Section 313 40 CFR 372, and CERCLA 40 CFR 302 for detailed instructions concerning reporting requirements.

**SECTION 7 - HANDLING AND STORAGE**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. Keep this and other chemicals out of reach of children.

**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION****ENGINEERING CONTROLS**

The use of local exhaust ventilation is recommended. Use corrosion-resistant ventilation equipment.

**PERSONAL PROTECTION:**

**RESPIRATORY PROTECTION:** None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Respiratory protection must be provided in accordance with OSHA regulations (29 CFR 1910.134) or European Standard EN 149, as applicable.

**PROTECTIVE GLOVES:** Neoprene, butyl or nitrile rubber gloves with cuffs.

**EYE PROTECTION:** Chemical splash goggles. Refer to 29 CFR 1910.133, ANSI Z87.1, or European Standard EN166.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Coveralls, apron, or other equipment should be worn to minimize skin contact.

**WORK / HYGIENIC PRACTICES:** Practice safe workplace habits. Safety showers and safety eyewash nearby.

**MATERIAL SAFETY DATA SHEET**

PRODUCT NAME: Citra Clean  
May 28, 2009

Page 3 of 4

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE AND ODOR Amber liquid, citrus orange odor	VAPOR DENSITY (AIR = 1) > 1
SPECIFIC GRAVITY (WATER = 1) 1.048	EVAPORATION RATE (Water = 1) < 1
SOLUBILITY IN WATER Complete	% VOLATILE (BY WEIGHT) 82.20%
pH 11.5 - 12.5	VAPOR PRESSURE 17 mm Hg @ 20° C
BOILING POINT 212° F ( 100° C )	FREEZING POINT 32° F ( 0° C )
VISCOSITY Like that of water	VOLATILE ORGANIC COMPOUNDS (VOC's) 0.56 pounds / gallon (66.1 grams / liter)

**SECTION 10 - STABILITY AND REACTIVITY**

STABILITY UNSTABLE: STABLE: X	CONDITIONS TO AVOID: Extreme temperatures.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids.	

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes or vapors, and smoke may be produced.

HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: X	CONDITIONS TO AVOID: None
---	---------------------------

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Hazardous Ingredients	CAS #	EINECS #	LD50 of Ingredient Species and Route	LC50 of Ingredient Species
Ethylene glycol monobutyl ether (a,b)	111-76-2	203-905-0	470 mg / kg Oral - rat	450 ppm / 4H Inhalation - rat
Sodium hydroxide (c,d)	1310-73-2	215-185-5	40 mg / kg IPR - Mouse	Not established
Potassium hydroxide (c,d)	1310-58-3	215-181-3	273 mg / kg Oral - rat	Not established
Sodium phosphate, tribasic (STPP) (c)	7758-29-4	231-838-7	3120 mg / kg Oral - rat	Not established
d-Limonene, Technical grade	5989-27-5	227-813-5	> 5000 mg / kg Oral - rat	Not established
(a,c) See Section 15				

**SECTION 12 - ECOLOGICAL INFORMATION**

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations. Refer to 40 CFR 260 - 299 for complete waste disposal regulations for alkaline materials. Consult your local, state, or federal agency before disposing of any chemicals. According to the European Waste Catalogue, waste codes are application specific and should be assigned by the user based on the application for which the product is used.

**SECTION 14 - TRANSPORT INFORMATION**

PROPER SHIPPING NAME: Non - Hazardous for Transport

DOT HAZARD CLASS / Pack Group: Not regulated  
REFERENCE: Not Applicable  
UN / NA IDENTIFICATION NUMBER: None  
LABEL: None Required  
HAZARD SYMBOLS: None

IATA HAZARD CLASS / Pack Group: Not regulated  
IMDG HAZARD CLASS: Not regulated  
RID/ADR Dangerous Goods Code: Not regulated  
UN TDG Class / Pack Group: Not regulated  
Hazard Identification Number (HIN): None

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

**MATERIAL SAFETY DATA SHEET**

PRODUCT NAME: Citra Clean  
 May 28, 2009

**SECTION 15 - REGULATORY INFORMATION**

**TSCA (Toxic Substance Control Act)**

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.

**SARA TITLE III (Superfund Amendments and Reauthorization Act)**

311/312 Hazard Categories  
 Immediate health

313 Reportable Ingredients:

(a) Indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

**CERCLA (Comprehensive Response Compensation and Liability Act)**

(c) The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ for this mixture > 24,000 lbs) or greater amounts, according to 40 CFR 302.

**California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986**

There are no reportable chemicals present known to the state of California to cause cancer or reproductive toxicity.

**CPR (Canadian Controlled Products Regulations)**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: D1A, D2B

**IDL (Canadian Ingredient Disclosure List)**

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 3.

**DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)**

Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 3 unless otherwise indicated.

**EINECS (European Inventory of Existing Commercial Chemical Substances)**

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

WGK Water Quality Index: 1

VbK Index: Not applicable

**Risk Phrases**

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
 R36/38 Irritating to eyes and skin.

**SYMBOL(S) REQUIRED FOR LABEL**

Harmful



**Safety Phrases**

S2 Keep out of the reach of children.  
 S24/25 Avoid contact with skin and eyes.  
 S28 After contact with skin, wash immediately with plenty of soap and water.  
 S36/37 Wear suitable protective clothing and gloves.

**SECTION 16 - OTHER INFORMATION**

Specific toxicity tests have not been conducted on this product. Our hazard evaluation is based on Information from similar products, the ingredients, technical literature, and/or professional experience.

**HMIS HAZARD RATINGS**

HEALTH	2	* = Chronic Health Hazard	2 = MODERATE
FLAMMABILITY	0	0 = INSIGNIFICANT	3 = HIGH
PHYSICAL HAZARD	0	1 = SLIGHT	4 = EXTREME

PERSONAL PROTECTIVE EQUIPMENT C Safety Glasses, Gloves, Apron

**REVISION SUMMARY:**

This MSDS has been revised in the following sections:  
 No changes noted

**MSDS Prepared by:**

Comprehensive Data Base, Inc.  
 P.O. Box 686  
 Seffner, FL 33583 USA  
 (863) 644 - 3298 www.compdatabase.com or www.msds.cc

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.