



# MATERIAL SAFETY DATA SHEET

04/17/06

## SECTION I - PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer:** Stellar Solutions, Inc.  
4511 Prime Parkway  
McHenry, IL 60050  
(847) 854-2800

**EMERGENCY TELEPHONE:** (847) 854-2800

Trade Name: CitriSurf 2310  
Identification Number: **STS-2310**  
Product Use/ Class: Specialty Cleaner

## SECTION II - COMPOSITION/ INFORMATION ON INGREDIENTS

<u>Item</u>	<u>Chemical Name</u>	<u>CAS NO.</u>	<u>% By Wt.</u> <u>less than</u>
01	Citric Acid	77-92-9	15%
	Non-hazardous Ingredients		Balance

Citric Acid is "Generally Regarded as Safe", "GRAS", as a general food additive 21 CFR 184.1033

### Exposure limits:

<u>Item</u>	<u>TLV/TWA</u>	<u>TLV-STEL</u>	<u>PEL-TWA</u>	<u>PEL-CEILING</u>	<u>TLV-TWA</u>	<u>SKIN</u>
01	N.E.	N.E.	N.E.	N.E.	N.E.	NO

(See Section 16 for abbreviation legend)

## SECTION III - HAZARDS IDENTIFICATION

\*\*\***EMERGENCY OVERVIEW**\*\*\*: Harmful if swallowed.

**Effects of Overexposure - Eye Contact:** Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes. May cause permanent eye damage if not treated immediately.

**Effects of Overexposure - Skin Contact:** Prolonged or repeated exposures can irritate or burn skin. Reaction may be more severe if there is skin abrasion(s). Allergic sensitization in susceptible individuals is possible.

**Effects of Overexposure - Inhalation:** Prolonged inhalation may be harmful. May cause irritation to nose and throat.

**Effects of Overexposure - Ingestion:** Irritating to mouth, throat and stomach. May cause discomfort, nausea, vomiting, diarrhea if swallowed.

---

### SECTION III - HAZARDS IDENTIFICATION (continued)

**Effects of Overexposure - Chronic Hazards:** Repeated skin contact may cause a persistent irritation or dermatitis.

Erosion of tooth enamel is possible from long-term overexposure.

**Primary Routes of Entry:** Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

---

### SECTION IV - FIRST AID MEASURES

**First Aid - Eye Contact:** IMMEDIATELY FLUSH EYES WITH WATER FOR 15 MINUTES. Get medical attention immediately.

**First Aid - Skin Contact:** Wash with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**First Aid - Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

**First Aid - Ingestion:** If swallowed, do NOT induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

---

### SECTION V - FIRE AND EXPLOSION INFORMATION

Flash Point: N/A - Aqueous solution                      Flammable Limits: N/A  
LEL: N/A  
UEL: N/A

Extinguishing Media: None required - Aqueous solution. Alcohol, foam, CO<sub>2</sub>, dry chemical, water fog may be used.

Special Fire Fighting Procedures:                      If storage containers are involved in fire, keep cool with water spray to prevent pressure build-up. As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

Unusual Fire and Explosion Hazard:                      None known. "Empty" containers retain some product residue (liquid and/or water vapor) and can be dangerous when pressurized. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.

---

### SECTION VI - ACCIDENTAL RELEASE MEASURES

**Steps to be taken in case material is released or spilled:** Absorb spill with inert material (e.g. dry sand or earth) then place in a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways. Follow all government regulations.

## SECTION VII - HANDLING AND STORAGE

**HANDLING:** Wash thoroughly after handling. Do not get into eyes, on skin or on clothing.

**STORAGE:** Keep container closed when not in use. Store in corrosion resistant containers. Store away from incompatible materials. Aqueous solutions of citric acid can, if in contact with reactive metals, (iron, zinc, aluminum) form hydrogen- an extremely flammable gas.

## SECTION VIII - EXPOSURE CONTROLS/ PERSONAL PROTECTION

**Engineering Controls:** Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**Respiratory Protection:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace condition warrant a respirator's use.

**Skin Protection:** The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Polyvinyl chloride, Impervious gloves. Consult your glove manufacturer for compatibilities.

**Eye Protection:** Wear chemical splash goggles. DO NOT WEAR CONTACT LENSES.

**Other Protective Equipment:** Wear suitable protective clothing to minimize and /or prevent contact. An eye-wash and safety shower should be present in the immediate area when handling this product.

**Hygienic Practices:** Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in well ventilated area. Follow all MSDS/ label precautions even after containers are emptied because they may retain product residues.

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	212°F	Melting Point:	NA
Odor:	N.D.	Appearance:	Clear, pale-colorless
Specific Gravity:	1.1	Solubility in Water:	Complete
Vapor Density	Heavier than air	Vapor Pressure	N.D.
Physical State:	Heavy liquid	Odor threshold:	N.D.
Evaporation Rate:	<1	Freeze Point:	N.D.
(Butyl Acetate= 1)		pH @ 100 %	~2
Viscosity:	N.D.	Coeff. of water/oil distribution:	N.D.

See Section 16 for abbreviation legend

## SECTION X - STABILITY AND REACTIVITY

Stability: Unstable\_\_\_\_\_ Stable X Conditions to Avoid: NA

Incompatibility: Strong bases, alkali metals, organic acids, oxides of sulfur, strong oxidizers, strong reducing agents, caustic materials.

Hazardous Decomposition or byproducts: Carbon dioxide, carbon monoxide

Hazardous Polymerization: Will not occur under normal conditions.

---

**SECTION XI - TOXICOLOGICAL PROPERTIES**

**Threshold Limit Value:** LD 50 (ORAL-RAT) 11.7 g/kg (as dry material)  
LD 50 (SCU-RAT) 5500 mg/kg (as dry material)  
LD 50 (IPR-RAT) 883 mg/kg (as dry material)  
LD 50 (ORAL-MOUSE) 5040 mg/kg (as dry material)

**Carcinogenicity:** NTP? NA IARC Monographs? NA OSHA Regulated? NA

---

**SECTION XII - ECOLOGICAL PROPERTIES**

**Ecological Information:** No information.

---

**SECTION XIII - DISPOSAL CONSIDERATIONS**

**Disposal Method:** Follow all federal, state and local regulations.

---

**SECTION XIV - TRANSPORTATION INFORMATION**

DOT Proper Shipping Name: Compound, Rust Preventing, NOI

DOT Hazard Class: Not DOT Regulated (Class 55)

---

**SECTION XV - REGULATORY INFORMATION****U. S. Federal Regulations as follows:**

**OSHA:** Hazardous by definition of Hazard Communication Standard ( 29 CFR 1910.1200)

**CERCLA - SARA Hazard Category:** This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

**No SARA Section 313 components exist in this product.**

**TOXIC SUBSTANCES CONTROL ACT (TSCA):**

The chemical substances in this product are on the TSCA Section 8 Inventory.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

**No information is available.**

---

**SECTION XV - REGULATORY INFORMATION (Continued)**
**NEW JERSEY RIGHT-TO-KNOW:**

No non-hazardous materials are among the top five ingredients.

**PENNSYLVANIA RIGHT-TO-KNOW:**

No non-hazardous ingredients are present in the product at greater than 3%.

**CALIFORNIA PROPOSITION 65:**

No Proposition 65 ingredients are present in the product.

**INTERNATIONAL REGULATIONS: As follows -**

Canadian WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

Canadian WHMIS Class: No information available.

---

**SECTION XVI - OTHER INFORMATION**
**HMIS RATINGS - Health: 1****Flammability: 0****Reactivity: 0**



---

 Signature of Preparer

---

 09/11/03

Date Prepared

---

 04/17/06

Date Revised

Reason for Revision: pH change

 Previous Revision Date: 05/20/04

Legend: N.A. - Not Applicable

N.E. - Not Established N.D. - Not Determined

---

While the company believes that the data contained herein is factual and the opinions expressed are based on tests and data believed to be reliable, it is the user's responsibility to determine the safety, toxicity and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by this company as to the effects of such use, the results to be obtained, or the safety and toxicity of the product, nor does this company assume any liability arising out of the use, by others, of the product referred to herein. Nor is the information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or governmental regulations.