



MATERIAL SAFETY DATA SHEET

01/08/10

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

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

EMERGENCY TELEPHONE: (847) 854-2800
8 AM - 5 PM Central Time

Trade Name: CitriSurf 77
Identification Number: STS-2004
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, severe irritation. If not removed promptly will cause eye injury, which may result in permanent damage.

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: No hazard in normal industrial use. 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 in large quantities.

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: Remove contact lenses. 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: LEL: N.A. **UEL:** N.A.

Extinguishing Media: None required - Aqueous solution. Alcohol, foam, CO₂, 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) over a period of time form hydrogen - an extremely flammable gas. Store under a controlled environment. Avoid excessive heat. Keep from freezing.

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: Rubber, neoprene or polyvinyl chloride impervious gloves may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection.. 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. Avoid contact with eyes, skin and clothing.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	212°F	Melting/Freezing Point:	N.D.
Odor:	N.D.	Appearance:	Clear, pale-colorless
Specific Gravity:	1.04	Solubility in Water:	Complete
Vapor Density:	Heavier than air	Vapor Pressure:	N.D.
Physical State:	Liquid	Odor threshold:	N.D.
Evaporation Rate:	<1 (Butyl Acetate = 1)	pH @ 100 %:	<2
Viscosity:	approx. 2 cps	Coeff. of water/oil dist.:	N.D.

(See Section 16 for abbreviation legend)

SECTION X - STABILITY AND REACTIVITY

Stability: This product is stable under normal storage conditions.

Conditions to Avoid: N.A.

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: N.A. IARC Monographs: N.A. OSHA Regulated: N.A.

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

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

SECTION XV - REGULATORY INFORMATION (continued)

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.

Canada Regulations as follows:

WHMIS: The Canadian Workplace Hazardous Materials Information System classification for this product is:

None - this is not a controlled product

Refer elsewhere in the MSDS for specific warnings and safe handling information. Refer to the employer's workplace education program.

SECTION XVI - OTHER INFORMATION

NFPA Ratings: **Health:** 1 **Flammability:** 0 **Reactivity:** 0

Date Prepared: 08/26/1997

Date Revised: 01/08/2010

Reason for Revision: Update

Previous Revision Date: 01/07/2009

Signature of Preparer:



Legend: N.A. - Not Applicable N.E. - Not Established N.D. - Not Determined

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