SAFETY DATA SHEET
CITRISURF® 2310

Aug 1 2020 (Jun 1 2023)

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Stellar Solutions, Inc. (847) 854-2800
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McHenry, IL 60050 stellar@citrisurf.com

EMERGENCY TELEPHONE: **1-800-535-5053** USA & Canada
24 hr INFOTRAC **1-352-323-3500** International

Trade Name: CitriSurf® 2310
Product Use/Class: Specialty Cleaner

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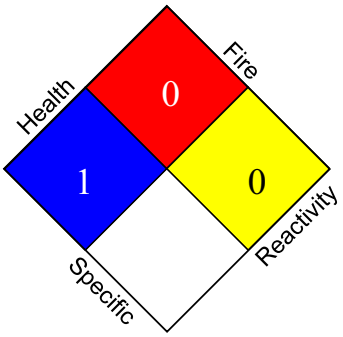
SECTION 2 - HAZARDS IDENTIFICATION

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

B: Safety glasses, gloves



*****EMERGENCY OVERVIEW***:** Harmful if swallowed. May cause eye burns or skin irritation.

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: Inhalation is not an expected hazard unless misted or heated to high temperatures. Prolonged mist or vapor inhalation may cause irritation to the nose, throat, and upper respiratory tract. Severe exposures can lead to a chemical pneumonitis.

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

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 2 - HAZARDS IDENTIFICATION (continued)

Hazard classifications:
Acute toxicity, oral 5
Skin corrosion/irritation 3
Serious eye damage/eye irritation 2A

Hazard statements: Warning
H303 May be harmful if swallowed
H316 Causes mild skin irritation
H319 Causes serious eye irritation

Precautionary statements:
P281 Use personal protective equipment as required.
P301 + P312 If swallowed: Call a poison center or doctor/physician if you feel unwell.
P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Item	Chemical Name	CAS No.	% By Wt. (less than)
01	Citric Acid	77-92-9	15%
-	Non-hazardous Ingredients	-	Balance

Citric Acid is "Generally Recognized as Safe" (GRAS) as a general food additive per 21 CFR 184.1033
Non hazardous ingredients in this product are considered non hazardous under the U.S. Federal Hazard Communication Standard 29 CFR 1910.1200. All ingredients are on the U.S. TSCA Inventory.

Exposure Limits:

Item	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	SKIN
01	N.E.	N.E.	N.E.	N.E.	NO

(See Section 16 for abbreviation legend)

SECTION 4 - FIRST AID MEASURES

First Aid - Eye Contact: Remove contact lenses. IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES, lifting lower and upper eyelids occasionally. 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 5 - FIRE AND EXPLOSION INFORMATION

Flash Point: N.A. - Aqueous solution

Flammable Limits: LEL: N.A. **UEL:** N.A.

SECTION 5 - FIRE AND EXPLOSION INFORMATION (continued)

Extinguishing Media: None required - Aqueous solution. Alcohol, foam, CO_2, 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. Bursting of containers can occur at elevated temperatures. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.

SECTION 6 - 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 7 - 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 8 - 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 conditions 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 SDS/label precautions even after containers are emptied because they may retain product residues. Avoid contact with eyes, skin and clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Heavy liquid	**Vapor Density:**	Heavier than air
Appearance:	Opaque, white gel/paste	**Vapor Pressure:**	N.D.
Viscosity:	N.D.	**Odor:**	N.D.
Specific Gravity/Density:	1.1	**Odor Threshold:**	N.D.
pH @ 100 %:	~ 2	**Flammability:**	N.A.
Solubility in Water:	Complete	**Flash Point:**	N.A.
Part. Coeff. n-octanol/water:	N.D.	**Auto-ignition Temperature:**	N.D.
Melting/Freezing Point:	N.D.	**Decomposition Temperature:**	N.D.
Boiling Point/Range:	> 212°F (100°C)	**Upper Flammability/Explosive Limit:**	N.A.
Evaporation Rate:	< 1 (Butyl Acetate = 1)	**Lower Flammability/Explosive Limit:**	N.A.

(See Section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

Stability: This product is stable under normal storage conditions.

Conditions to Avoid: N.A.

Incompatibility: Strong bases, alkali metals, 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 11 - TOXICOLOGICAL PROPERTIES

Acute Toxicity	LD 50 (ORAL-RAT) 11.7 g/kg (as dry material)
Threshold Limit Values:	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)
Skin Corrosion/Irritation:	May cause skin irritation
Serious Eye Damage/Irritation:	Causes serious eye irritation
Respiratory Irritation:	Not expected to produce fumes causing irritation to the respiratory tract
Respiratory or Skin Sensitization:	Not expected to have sensitizing effects
Ingestion:	May cause gastrointestinal discomfort
Germ Cell Mutagenicity:	No known mutagenic effects
Carcinogenicity:	No known carcinogenic effects **NTP:** N.A. **IARC Monographs:** N.A. **OSHA Regulated:** N.A.
Reproductive Toxicity:	No known reproductive effects
Specific Target Organ Toxicity (STOT) single/repeated exposure:	No known effects on specific organs
Aspiration Hazard:	May cause irritation to the respiratory tract

SECTION 12 - ECOLOGICAL PROPERTIES

Ecological Information: No information.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Method: Follow all federal, state/province, and local regulations. pH adjustment may be required for disposal of large quantities. Containers may be rinsed clean with water.

SECTION 14 - TRANSPORTATION INFORMATION

UN Number: Not listed **UN Proper Shipping Name:** Not Regulated (Citric acid solution)

Marine Pollutant: No

DOT, TDG, IMDG, ICAO/IATA: Not Regulated

SECTION 15 - 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.

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

SECTION 16 - OTHER INFORMATION

Date Prepared: Sep 11 2003
Date Revised: Aug 1 2020
Reapproved without revision: Jun 1 2023
Previous Revision Date: Dec 1 2017

Signature of Preparer:

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

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