

**SPARTAN CHEMICAL COMPANY, INC.
WHMIS MATERIAL SAFETY DATA SHEET**

SECTION I: PRODUCT INFORMATION

**PRODUCT IDENTIFIER
GREEN SOLUTIONS RESTROOM CLEANER**

PRODUCT USE: Citric Acid Based Restroom Cleaner

MANUFACTURER'S NAME & ADDRESS
Spartan Chemical Company, Inc.
1110 Spartan Drive, Maumee, OH 43537 USA

MEDICAL EMERGENCY TELEPHONE
888/314-6171 (24 Hours)
PRODUCT INFORMATION
800/537-8990

SECTION II: HAZARDOUS INGREDIENTS

| CAS REGISTRY NO. | % W | CHEMICAL NAME(S) | TLV | | | LD50 | LC50 |
|------------------------|------|--------------------|--------------------------|---------------------------|------------------------------|---------------|---------------|
| | | | TWA mg/m ³ | STEL mg/m ³ | Ceiling mg/m ³ | | |
| 77-92-9 | 5-10 | Citric acid | ---- | Not Established | ---- | Not available | Not available |
| 68439-46-3 | 1-5 | Alcohol ethoxylate | ---- | Not Established | ---- | Not available | Not available |

SECTION III: PHYSICAL DATA

| | | |
|---|---|---|
| BOILING POINT 100 °C (212°F) | SPECIFIC GRAVITY (H₂O = 1) 1.03 | PERCENT SOLID BY WEIGHT 5-10 |
| VAPOUR PRESSURE Not established | EVAPORATION RATE (butyl acetate = 1) < 1 | FREEZING POINT Not available |
| VAPOUR DENSITY (AIR = 1) Not established | SOLUBILITY IN WATER Complete | ODOUR THRESHOLD Not available |
| pH 1.5 – 2.5 | APPEARANCE AND ODOUR Clear liquid, bland odor | PHYSICAL STATE GAS__ LIQUID <u>X</u> SOLID_____ |
| COEFFICIENT OF WATER/OIL DISTRIBUTION Not available | | |

SECTION IV: FIRE & EXPLOSION DATA

| | | |
|--|---|--|
| FLASH POINT >100 °C (212°F) | METHOD USED ASTM - D56 | FLAMMABLE LIMITS Not established |
| EXTINGUISHING MEDIA Water, CO2 or dry chemical | CONDITIONS OF FLAMMABILITY Not applicable | AUTO-IGNITION TEMPERATURE Not applicable |
| HAZARDOUS COMBUSTION PRODUCTS Not established | | EXPLOSION DATA Not applicable |
| SPECIAL FIRE FIGHTING PROCEDURES Use self-contained breathing apparatus for maximum respiratory protection. Water may be used to cool containers if not ruptured or leaking. | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS None known | | |

SECTION V: REACTIVITY DATA

STABILITY: STABLE X **CONDITIONS OF INSTABILITY** **CONDITIONS OF REACTIVITY**
Not established Not established

INCOMPATIBILITY (MATERIALS TO AVOID) Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS Carbon dioxide, carbon monoxide

SECTION VI: TOXICOLOGICAL PROPERTIES

PRIMARY ROUTES OF ENTRY: Eye Contact, Skin Contact, Ingestion, Inhalation

EXPOSURE LIMIT

Not established for mixture.

EFFECTS OF ACUTE EXPOSURE:

EYE CONTACT: Causes eye irritation with symptoms such as pain, redness and swelling.

INGESTION: May be harmful if swallowed. Symptoms may include nausea, diarrhea, and intestinal upset.

SKIN CONTACT: Causes skin irritation with symptoms such as pain, redness and swelling.

INHALATION: Breathing product mist may cause respiratory irritation.

EFFECTS OF CHRONIC EXPOSURE

None known

IRRITANCY OF PRODUCT

Causes skin and eye irritation

SENSITIZATION TO PRODUCT

Not available

CARCINOGENICITY

No

REPRODUCTIVE TOXICITY

Not available

TERATOGENICITY

Not available

MUTAGENICITY

Not available

SYNERGISTIC PRODUCTS

Not available

SECTION VII: PREVENTIVE MEASURE

PERSONAL PROTECTIVE EQUIPMENT / ENGINEERING CONTROLS:

Wear natural rubber or other impervious gloves and splash goggles. Provide good general ventilation. Local exhaust ventilation may be necessary for some operations. If respiratory irritation can not be prevented by ventilation, use of a NIOSH approved respirator suitable for the conditions of use and chemicals in Section II should be considered. (N95 recommended)

LEAK AND SPILL PROCEDURE: Small quantities may be flushed into sanitary sewer. Larger quantities should be picked up with inert absorbent material and disposed on in accordance with applicable regulations.

WASTE DISPOSAL METHOD: Assure conformance with applicable regulations...

HANDLING PROCEDURES: Avoid contact with eyes, skin and clothing. Do not swallow. Avoid breathing product mist. Wash thoroughly after handling.

STORAGE REQUIREMENTS: Keep container closed when not in use. Do not freeze. Do not store above 49°C (120°F). Keep out of reach of children.

SPECIAL SHIPPING INFORMATION: None, Shipping Description: Non Hazardous Products

SECTION VIII: FIRST AID MEASURES

EYES: Flush eyes with water for at least 15 minutes. Remove contact lenses. Get medical attention.

SKIN: Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists. Wash contaminated clothing before reuse.

INGESTION: Do not induce vomiting unless advised to do so by a doctor or poison control center. Drink one or two glasses of water to dilute product. Get medical attention. Do not give anything by mouth to an unconscious person.

INHALATION: In case of respiratory irritation or dizziness, move person to fresh air. Get medical attention if irritation persists.

SECTION IX: PREPARATION INFORMATION

GREEN SOLUTIONS RESTROOM CLEANER

DATE OF PREPARATION June 1, 2015

SUPERCEDES: June 8, 2012

PREPARED BY Ronald T. Cook / Manager, Regulatory Affairs / Spartan Chemical Company, Inc.

TELEPHONE NUMBER 800/537-8990