

# MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

## SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

**Identity (As Used on Label and List):** Citrus Assault  
**Product Class:** Water-based cleaner  
**Emergency Telephone Number:** 800-255-3924  
**Telephone Number for Information:** 651-481-1900  
**Manufacturer's Name and Address:**  
Multi-Clean®  
600 Cardigan Road  
Shoreview, MN 55126

## SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous Components (Specific Chemical Identity):**

Chemical	Common Name(s)	%
A	Sodium Metasilicate Pentahydrate CAS #6834-92-0	1 - 5
B	Ethoxylated Alcohols CAS #34398-01-1	1 - 5
C	Water CAS #7732-18-5	60 - 100

## SECTION III - HAZARDS IDENTIFICATION

### Emergency Overview

**Appearance and Odor:** Orange liquid, orange aroma.

**Primary Hazards:** Corrosive

### Potential Health Hazards

**Route(s) of Entry:** **Skin Absorption:** **Ingestion:** X **Inhalation:**

**Eye:** May cause chemical burns on contact.

**Skin:** May cause chemical burns on contact.

**Ingestion:** May be harmful if swallowed.

**Inhalation:** No hazardous vapors.

**Signs and Symptoms of Exposure:** Eye Contact: Possible burning, tearing, redness and corneal damage. Skin Contact: Possible slippery feeling, redness, swelling and burns. Symptoms may be delayed.

**Carcinogenicity:** NTP? No IARC Monographs? No

OSHA Regulated? No

**Target Organ (s):** Skin and eyes.

**Medical Conditions Generally Aggravated by Exposure:** N. Av.

**Health Hazards, Chronic:** N. Av.

## SECTION IV - FIRST AID MEASURES

**Emergency and First Aid Procedures:**

**If Swallowed:** Do not induce vomiting. If person can swallow, give several glasses of water. Obtain medical attention immediately. **Eye Contact:** Flush eyes with running water for at least 15 minutes. Obtain immediate medical attention. **Skin Contact:** Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse. **Inhalation:** Remove to fresh air. If irritation persists, obtain medical attention.

**Sources Used:** Raw material data, general toxicology from the trade for similar products.

## SECTION V - FIRE FIGHTING MEASURES

**Flammability:** No **Autoignition Temperature:** N. Av.

**Flash Point (method used):** None

**Flammable Limits:** N. Av.

LEL UEL

**Extinguishing Media:** N. Av.

Water?

Foam?

Water Fog?

Alcohol Foam?

CO<sub>2</sub>?

Dry Chemical?

Vaporizing Liquid?

Other?

**Special Fire Fighting Procedures:** N. Av.

**Unusual Fire and Explosion Hazards:** N. Av.

**TDG Flammability Classification:** Non-flammable

**Sensitivity to Mechanical Impact:** None

**Sensitivity to Static Discharge:** None

## SECTION VI - ACCIDENTAL RELEASE MEASURES

**Steps to be Taken in Case Material is Released or Spilled:**

Dike and contain spill with inert material (sand, earth, etc). Collect spill with mop, absorbent material (example: floor-dri) or vacuum. Thoroughly rinse affected area with water.

## SECTION VII - HANDLING AND STORAGE

**Precautions to be Taken in Handling and Storing:**

Normal care in handling and storage.

**Other Precautions:** Keep out of reach of children. Keep from freezing.

## SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory Protection (Specify Types):** Not required

**Ventilation:** **Local Exhaust:** Not required **Special:** Not required

**Mechanical (General):** Normal good ventilation sufficient.

**Other:** Not required

**Protective Gloves:** Natural rubber or synthetic.

**Eye Protection:** Approved safety goggles or glasses. **Footwear:** Not required

**Other Protective Clothing or Equipment:** Not required

**Work/Hygienic Practices:** Do not contaminate food or beverages with cleaning chemicals.

## SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

**Boiling Point:** Approximately 212°F

**pH:** > 13

**Specific Gravity (H<sub>2</sub>O) = 1:** 1.03

**% Volatile:** 60 - 100

**Vapor Density (Air = 1):** N. Av.

**Odor Threshold:** N. Av.

**Evaporation Rate (Butyl Acetate = 1):** N. Av.

**Oil/Water Distribution**

**Solubility in Water:** Complete

**Coefficient:** N. Av.

**Vapor Pressure (MM HG):** N. Av.

**Melting Point:** N. Av.

## SECTION X - STABILITY AND REACTIVITY

**Stability:** **Unstable:** **Stable:** X

**Conditions to Avoid:** N. Av.

**Incompatibility (materials to avoid):** N. Av.

**Hazardous Decomposition or By-products:** N. Av.

**Hazardous Polymerization:** **May occur:**

**Will not occur:** X

**Conditions to Avoid:** N. Av.

## SECTION XI - TOXICOLOGICAL INFORMATION

Chemical	OSHA PEL	ACGIH TLV	Recom.	LD50	LC50
A	N. Av.	N. Av.	2 mg/M <sub>3</sub>	800 mg/kg	N. Av.
B	N. Av.	N. Av.	N. Av.	0.7-1.7 g/kg (rat, oral)	N. Av.
C	None	None	N. Av.	N. Av.	N. Av.

**Teratogen, Mutagen, Reproductive Toxin Status:** No

**Toxicologically Synergistic Products:** N. Av.

## SECTION XII - ECOLOGICAL INFORMATION

**Ecotoxicological Information:** N. Av.

## SECTION XIII - DISPOSAL CONSIDERATIONS

**Waste Disposal Method:**

Dispose of spilled material in accordance with local, state and federal regulations. Waste from normal cleaning procedures may be sewer, depending on the materials and/or contaminants being cleaned as well as state, federal and local sewer commission regulations.

**RCRA Hazard Class:** D002, characteristic corrosive.

## SECTION XIV - TRANSPORT INFORMATION

**Shipping Classification:** Corrosive liquid, basic inorganic, N.O.S. (Containing sodium metasilicate), Class 8

**UN Number:** 3266

**Packing Group:** II

## SECTION XV - PREPARATION DATA

**Prepared By:** Mike Elms

**Telephone Number:** 651-481-1900

**Date:** 12-09

## SECTION XVI - REGULATORY INFORMATION

**US Federal Regulations**

**TSCA Status:** All ingredients listed.

**CERCLA Reportable Quality:** N. Av.

**SARA Title III**

**Section 302 Extremely Hazardous Chemicals:** None

**Section 311/312 Hazard Category:** Immediate health hazard

**Section 313 Toxic Chemicals:** None

**State Regulations**

**International Regulations**

**WHMIS Controlled Product Hazard Class:** E

## SECTION XVII - OTHER INFORMATION

None

N. Av. - Not Applicable; N. Av. - Not Available

## NFPA SYSTEM

2 A. Health Hazard 0 A. Fire Hazard 0 A. Reactivity Hazard

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE. HOWEVER NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. MINUTEMAN INTERNATIONAL, INC. ASSUMES NO RESPONSIBILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE TO VENDEES, USERS OR THIRD PARTIES CAUSED BY THE MATERIAL. SUCH VENDEES OR USERS ASSUME ALL RISKS ASSOCIATED WITH THE USE OF THE MATERIAL.