

**MATERIAL SAFETY DATA SHEET****SECTION 1 — PRODUCT IDENTIFICATION**

**Product identifier:** Citrus Clean  
**Product use:** Cleaning agent  
**Product Code Number:** 63905  
**MSDS Number:** 0843

**WHMIS Classification:** D2B

**Supplier name and address:**  
 Corporate Chemicals  
 7 Neilson St.  
 St. Catharines, ON L2M 5V9  
 (905) 682-8888

**Manufacturer's name and address:**  
 Refer to Supplier

**Emergency Telephone #: CANUTEC (613) 996-6666**

**SECTION 2 — CHEMICAL COMPOSITION/HAZARDOUS INGREDIENTS**

<b><u>Ingredients</u></b>	<b><u>CAS #</u></b>	<b><u>% (weight)</u></b>	<b><u>LD<sub>50</sub></u></b> <b><u>mg/kg</u></b> <b><u>oral/rat</u></b>	<b><u>LD<sub>50</sub></u></b> <b><u>mg/kg</u></b> <b><u>skin/rabbit</u></b>	<b><u>LC<sub>50</sub></u></b> <b><u>ppm</u></b> <b><u>inh/rat</u></b>
Sodium Metasilicate Pentahydrate	6834-92-0	1-5 %	1,153	n/av	20,000 ppm/10H
Dipropylene glycol monobutyl ether	34590-94-8	1-5 %	7,292	2,764	n/av
Fatty Alcohol Ethoxylate	68131-39-5	1-5 %	2,000	n/av	n/av
D-Limonene	5989-27-5	1-5 %	4,400	>2,000	n/av
Coconut diethanolamide	68603-42-9	1-5%	5,000-10,000	not av	not av

**SECTION 3 — HAZARDS IDENTIFICATION**

\*\*\*POTENTIAL HEALTH EFFECTS\*\*\*

**Routes of entry:** Ingestion and eye contact.

**Signs and symptoms of short-term (acute) exposure:**

*Inhalation:* Moderately irritating to the eyes, nose, throat and lungs. High concentration of vapours will cause irritation, or if inhaled as a mist. Excessive exposure may cause irritation to upper respiratory tract. (Nose and Throat).

*Skin contact:* May cause skin irritation.

*Eye contact:* Contact can result in irritation.

*Ingestion:* May be harmful if swallowed, causing nausea, vomiting and diarrhea, possible central nervous system depression, with headache, giddiness and loss of coordination.

**Effects of long-term (chronic) exposure:** none known.

**Other important hazards:** None reported.

**SECTION 4 — FIRST AID MEASURES**

**Inhalation:** Remove victim to fresh air. If breathing difficulties persist, call a physician.

**Skin contact:** Rinse with water. Wash with soap and water. Contact a physician if irritation develops.

**Eye contact:** Flush eyes with running water for at least 15 minutes, keeping eyelids open. Get immediate medical attention.

**Ingestion:** Do not induce vomiting. Call physician immediately. If vomiting occurs naturally, have victim lean forward to prevent aspiration of material into lungs.

## SECTION 5 — FIRE FIGHTING MEASURES

**Fire hazards/conditions of flammability:** Not flammable.

**Flash point (Method):** not determined.

**Lower flammable limit (% by volume):** Not available

**Upper flammable limit (% by volume):** Not available.

**Explosion data:** *Sensitivity to mechanical impact:* Not sensitive. *Sensitivity to static discharge:* May be sensitive if heated to high temperatures.

**Oxidizing properties:** None.

**Auto-ignition temperature:** Not available

**Suitable extinguishing media:** Water, dry chemicals and carbon dioxide can be used on fires in which this product is involved.

**Special fire-fighting procedures/equipment:** Fire-fighters should wear chemical-resistant clothing (for example, chemical splash suit) and positive pressure self-contained breathing apparatus, approved by NIOSH/MSHA.

**Hazardous combustion products:** Combustion may release toxic or corrosive gases, such as oxides of carbon, sodium, sulphur or nitrogen.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear protective equipment as required by workplace standards.

**Environmental precautions:** Prevent spills from entering waterways.

**Spill response/Cleanup:** Recover and reuse as much of the product as possible.

**Prohibited materials:** None known.

## SECTION 7 — HANDLING AND STORAGE

**Safe handling procedures:** Avoid contact with eyes.

**Storage requirements:** Store in a cool, dry area. Keep away from heat, incompatible materials, and sources of ignition.

**Special packaging materials:** Not prescribed.

## SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Ventilation and engineering controls:** General ventilation should be sufficient.

**Respiratory protection:** Normally not required.

**Protective gloves:** Rubber, nitrile rubber, butyl rubber or Neoprene gloves recommended for repeated and prolonged contact.

**Eye protection:** Safety glasses recommended when handling this product.

**Other protective equipment:** Eyewash station and safety shower.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

**Physical form, colour and odour:** slightly viscous typical citrus odour with orange colour.

**odour threshold:** Not available

**pH:** 12.0-12.6

**Boiling point:** Not available

**Melting/freezing point:** Not available

**Vapour pressure:** Not available

**Solubility in water:** complete

**Coefficient of oil/water distribution:** Not available

**Vapour density:** Not available

**Specific gravity or relative density (water = 1):** 1.03

**Evaporation rate:** as water

**Volatile organic compounds (VOC's):** 2.5%

**Percent Volatile by Weight:** Not available

## SECTION 10 — REACTIVITY AND STABILITY DATA

**Stability and reactivity:** Normally stable.

**Conditions to avoid:** Keep containers closed, when not in use.

**Materials to avoid:** Strong oxidizers, acids and alkalis

**Hazardous decomposition products:** Oxides of carbon, sodium, sulphur and nitrogen.

<b>SECTION 11 — TOXICOLOGICAL INFORMATION</b>
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**LD<sub>50</sub>:** Not established for this product. See Section 2 for values for ingredients.

**LC<sub>50</sub>:** Not established for this product. See Section 2 for values for ingredients.

**Exposure limits:** ACGIH-TLV - Not established.

**Carcinogenicity:** None of the ingredients is listed by IARC, ACGIH, NTP, and OSHA as carcinogenic.

**Teratogenicity, mutagenicity, other reproductive effects:**

**Sensitization to material:** Not reported.

**Conditions aggravated by exposure:** Skin conditions such as dermatitis.

**Synergistic materials:** None known.

<b>SECTION 12 — ECOLOGICAL INFORMATION</b>
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**Environmental effects:** Not known. All surfactants are readily biodegradable.

<b>SECTION 13 — WASTE DISPOSAL</b>
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**Handling for disposal:** Reuse if possible. Keep in closed, labelled containers, away from heat.

**Methods of disposal:** Follow local, provincial, state and federal regulations.

<b>SECTION 14 — TRANSPORTATION INFORMATION</b>
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**Shipping description:** TDG - Not regulated

**Please note:** This shipping description is of a general nature only. It does not consider package sizes, modes of transport and other specific circumstances. Appropriate regulations should be referenced, and handling for transportation of dangerous goods/hazardous materials should be performed by trained personnel only.

<b>SECTION 15 — REGULATORY INFORMATION</b>
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**WHMIS information:** D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.

<b>SECTION 16 — OTHER INFORMATION</b>
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**Prepared by:** Armstrong Manufacturing Inc.

**Telephone number:** (905) 566-1395

**Preparation date:** 19 January 2012

References:

1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2001.
2. International Agency for Research on Cancer Monographs, Supplement 7, 1988.
3. Canadian Centre for Occupational Health and Safety. CHEMINFO database.
4. Material Safety Data Sheets from raw materials suppliers.
5. N. Irving Sax. Dangerous Properties of Industrial Materials, Seventh Edition.

n/ap Not applicable

n/av Not available

gm gram

MT/js