


### 01 Chemical Product and Company Identification

<b>Product Name</b>	Vortex Sour
<b>Product Use</b>	Laundry Sour
<b>Product Code</b>	3881
<b>For Medical Emergency</b>	Call 'Chemtrec' 1-800-424-9300
<b>Supplier's Information</b>	Santec Inc. 1420 East Linden Avenue, Linden NJ 07036

### 02 Hazards Identification

**GHS Classification:** 1. Skin - Category 2  
2. Eyes - Category 2

**GHS Label Element:** 

**Signal Word:** Warning

**Hazard Statement:** Causes skin irritation.

**Precautionary Statements:** Wear protective gloves, splash goggles, face shield, boots. Wash thoroughly after handling.

**Acute Effects**

**Eyes:** Severe eye irritant. Causes redness or swelling.

**Skin:** Skin irritant. Symptoms include redness, itching, and pain.

**Inhalation:** No known acute effects resulting from inhalation.

**Ingestion:** Causes irritation to the mouth, throat and gastrointestinal system. Symptoms may include nausea, vomiting, diarrhea and cramps.

**Chronic Effects**

**Carcinogenicity:** No known critical effects or critical hazards.

**Product /Ingredient Name:** Not available.

### 03 Composition/ Information on Ingredients

Name of Hazardous Ingredients	CAS No.	WT.%
Citric Acid	77-92-9	25-40

### 04 First Aid Measures

**Eye Contact:** Check for and remove any contact lenses. Flush with large quantities of water, holding eyelids open for 15 minutes. Seek medical attention if symptoms persist.

**Skin Contact:** Wash skin with copious amounts of water. If symptoms persist seek medical attention.

**Inhalation:** Remove to fresh air. Seek medical attention if irritation persists.

**Ingestion:** Do not induce vomiting. Drink copious amounts of water. Seek medical attention immediately.

### 05 Fire Fighting Measures

**Suitable Fire Extinguishing Media:** Use water spray, fog or foam

**Specific Hazards Arising from the Chemical:** In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous Thermal Decomposition Products:** No Specific Data

**Specific Fire-Fighting Methods:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Specific Protective Equipment for Fire-Fighters:** Fire-Fighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 06 Accidental Release Measures

**Spill Clean Up:** Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Move Containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### 07 Handling and Storage

**Handling:** Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Wash thoroughly after handling.

**Storage:** Store between the following temperatures: 4.44 to 48.9°C (40 to 120°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### 08 Exposure Controls/ Personal Protection

<u>Ingredient Name</u>	<u>Exposure Limits</u>
N/A	N/A

#### Personal Protective Equipment (PPE)

**Eyes:** Safety glasses.

**Body:** For prolonged or repeated handling, use gloves. Nitrile gloves. Rubber gloves. Neoprene gloves.

**Respiratory:** Use with adequate ventilation. A respirator is not needed under normal and intended conditions of product use.

### 09 Physical and Chemical Properties

<b>Physical State</b>	Clear liquid
<b>Color</b>	Water white
<b>Odor</b>	No Odor
<b>pH</b>	1.0-1.2
<b>Flash point</b>	None
<b>Explosion limits</b>	Not available
<b>Flammability (solid, gas)</b>	Not available
<b>Melting point</b>	Not available
<b>Boiling point</b>	Not available
<b>Evaporation rate (butyl acetate = 1)</b>	Not available
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Relative density</b>	1.3 (Water = 1)
<b>Solubility</b>	Easily soluble in the following materials: cold water and hot water
<b>Partition coefficient n-octano/water</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available
<b>Odor threshold</b>	Not available
<b>Viscosity</b>	Kinematic (room temperature): ≤ 10 cSt (CPS)

### 10 Stability and Reactivity

**Stability:** The product is stable.

**Possibility of hazardous reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid:** No specific data.

**Materials to avoid:** Oxidizing agents, reducing agents, strong alkalies; corrosive to brass, zinc, aluminum, cast iron and steel (not stainless steel).

**Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition should not be produced.

### 11 Toxicological Information

Product /Ingredient Name	Result	Species	Dose
Citric Acid	LD50 Oral	Rat	5400 mg/kg

### 12 Ecological Information

N/A

### 13 Disposal Considerations

**Waste Information**  
 Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

### 14 Transport Information

Regulatory Information	UN Number	Proper Shipping Name	Classes	PG*	Label
<b>DOT Classification</b>	not regulated	-	-	-	-

**Note:** DOT classification applies to most package sizes. For specific container size classifications or size exceptions, refer to the bill of lading with your shipment.  
**PG\*:** Packing Group

### 15 Regulatory Information

**U.S. Federal Regulations**  
**TSCA 8(b) inventory:** All components are listed or exempted.  
**SARA 302/304/311/312 extremely hazardous substances:** No listed substance  
**SARA 302/304 emergency planning and notification:** No listed substance

SARA 313	Product name	CAS number	Concentration
Form R-Reporting requirements	No listed substance		

### 16 Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy of completeness of the information contained herein.  
 Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

\*Hazard Determination System (HDS):

Health	2
Reactivity	0
Flammability	0

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\*NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimum hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.