

*Section 1. Chemical Product and Company Identification*

<b>Flo-Kem, Inc</b>	<b>Name:</b> Citrus Fresh Cleaner	<b>Emergency Telephone #:</b>
<b>19402 Susana Road</b>	<b>Identity:</b> Natural Based Cleaner	CHEMTEL (800)-255-3924
<b>Rancho Dominguez, CA 90221</b>	<b>Product Code:</b> 6822	

*Section 2. Hazards Identification*

**Classification:**      **Physical:**      NA  
                                  **Health:**            Irritant  
                                  **Environmental:**    ND

**Acute: Eyes:**        Causes eye irritation.  
**Skin:**                May cause irritation to sensitive skin.  
**Ingestion:**        Low acute toxicity. Large quantities may cause gastric upset.  
**Inhalation:**        May cause respiratory tract irritation.  
**Chronic:**            None known.

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

*Section 3. Composition, Information on Ingredients*

Hazardous Component > 1%:	CAS Number:	% By Weight:
d-Limonene	5989-27-5	5-10
Sodium Dodecylbenzene Sulfonate	25155-30-0	<5
Alcohols C9-11 Ethoxylated	68439-46-3	<5
Tetra Sodium Ethylenediamine Tetra Acetate	64-02-08	<2

*Section 4. First Aid Measures*

**Have product container or label with you when calling a poison control center, doctor, or going for treatment.**

**Eyes:**                Immediately flush eyes with large amounts of water for 15 minutes. Hold eyelids apart during the flushing to ensure thorough rinsing. Obtain medical attention.

**Skin:**                Wash off with plenty of water. Remove contaminated clothing and wash before reuse. If irritation persists, get medical attention.

**Ingestion:**        Do not induce vomiting. Rinse mouth with water, then give one to two glasses of water if victim is conscious. Obtain medical attention.

**Inhalation:**        Remove to fresh air. If symptoms persist, obtain medical attention.

*Section 5. Fire Fighting Measures*

**Extinguishing Media:**      Foam, dry chemical, carbon dioxide, water fog. Use water to cool fire-exposed containers.

**Special Fire Fighting Procedures:**    Prevent breathing vapors. Wear SCBA and impervious protective clothing.

**Specific Hazards Arising from the Chemical:**    Combustible liquid. Water may spread burning liquid. Keep away from sparks, heat and open flames.

## Section 6. Accidental Release Measures

**Small Spills:** Mop up. Recover as much as possible. Do not dump into sewers, ground or body of water.

**Large Spills:** Same as small spill. Dike area and absorb into neutral material or pump up. Flush traces with plenty of water. Do not let run-offs enter drains or bodies of water.

## Section 7. Handling and Storage

**Handling and Storage:** Store in cool, dry well ventilated area. Keep container tightly closed when not in use.

**Other Precautions:** Keep out of reach of children. FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY.

## Section 8. Exposure Control / Personal Protection

Component:	CAS Number:	PEL:	TLV:	IDLH:
d-Limonene	5989-27-5	NE mg/M <sup>3</sup>	NE mg/M <sup>3</sup>	
Sodium Dodecylbenzene Sulfonate	25155-30-0	NE mg/M <sup>3</sup>	NE mg/M <sup>3</sup>	
Alcohols C9-11 Ethoxylated	68439-46-3	NE mg/M <sup>3</sup>	NE mg/M <sup>3</sup>	
Tetra Sodium Ethylenediamine Tetra Acetate	64-02-08	NE mg/M <sup>3</sup>	NE mg/M <sup>3</sup>	

**Respiratory Protection:** Not normally indicated when used as directed. Use NIOSH approved air purifying respirator if significant vapor, mist, or aerosol is generated. Recommended if experiencing respiratory irritation.

**Ventilation:** No special measures required.

**Mechanical/Engineering (General):** Not normally indicated when used as directed.

**Protective Gloves:** Rubber or vinyl; optional.

**Eye Protection:** Chemical safety goggles.

**Protective Clothing:** Not normally indicated.

**Work/Hygienic Practices:** The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because use conditions will vary, depending upon customer applications, specific safe handling procedures should be developed by persons knowledgeable of the intended use conditions and equipment.

## Section 9. Physical and Chemical Properties

**Appearance and Odor:** Clear orange liquid, citrus scent.

<b>pH:</b> 10.00 ± 0.5	<b>Boiling Point:</b> >212° F	<b>Specific Gravity:</b> 1.008 ± 0.005	<b>Melting/Freezing Point:</b> ND
<b>Solubility:</b> Complete	<b>Vapor Pressure (mm Hg.):</b> ND	<b>Vapor Density (Air = 1):</b> ND	<b>Evaporation Rate (H2O = 1):</b>
<b>Flash Point (TCC):</b> 200°F	<b>% LEL:</b> ND	<b>% UEL:</b> ND	<b>Flammable Limits:</b> ND
			<b>VOCgm/L:</b> 50

## Section 10. Stability and Reactivity

**Stability:** Stable.

**Hazardous Polymerization:** Will not occur.

**Incompatibility (Materials to Avoid):** Oxidizers and ignition sources.

**Hazardous Decomposition Byproducts:** Carbon Dioxide and Carbon Monoxide.

**Conditions to Avoid:** None

**Section 11. Toxicological Information**

**Carcinogenicity:**                    **NTP** No                    **IARC** No                    **OSHA** No

<b>Component:</b>	<b>LD50 Oral:</b>	<b>LC50 Inhalation:</b>	<b>LD50 Dermal:</b>
Tetrasodium ethylenediamine tetra acetate	3030 mg/kg - rat	No data available.	> 50000 mg/kg - rabbit
C9-11 alcohol ethoxylate	500-2000 mg/kg - rat	>20 mg/L 1H - rat	> 2000mg/kg - rat
Mixture, Sodium dodecylbenzenesulfonate, sodium xylenesulfonate (SXS), D-limonene	>1080-2000 mg/kg - rat	No data available.	No data available.
	>5g/kg - rat	>1000 ppm	>5g/kg - rabbit

**Other Toxicological Data**

Tetrasodium ethylenediamine tetra acetate	No data available.
C9-11 alcohol ethoxylate	Skin moderate irritation. Eye severe irritation.
Mixture, Sodium dodecylbenzenesulfonate, sodium xylenesulfonate (SXS),	No data available.
D-limonene	Not acutely toxic

**Section 12. Ecological Information****Environmental toxicity:**

<b>Component:</b>	<b>Toxicity to fish:</b>	<b>Toxicity to aquatic invertebrates:</b>	<b>Toxicity to aquatic plants and micro-organisms:</b>
Tetrasodium ethylenediamine tetra acetate	LC50 >100 mg/L 96 H flathead minnow	No data available.	No data available.
C9-11 alcohol ethoxylate	LC50 2.6 mg/L 96H flathead minnow	No data available.	No data available.
Mixture, Sodium dodecylbenzenesulfonate, sodium xylenesulfonate (SXS),	No data available.	No data available.	No data available.
D-limonene	No data available.	No data available.	No data available.

**Other Ecological Data**

Tetrasodium ethylenediamine tetra acetate	Material expected to be practically non-toxic to fish.
C9-11 alcohol ethoxylate	No data available.
Mixture, Sodium dodecylbenzenesulfonate, sodium xylenesulfonate (SXS),	Aquatic LC50 >1.0-10.0 mg/L. This product is not biodegradable.
D-limonene	May be toxic to aquatic organisms.

### *Section 13. Disposal Considerations*

**Disposal:** Dispose in accordance with Federal, State, and Local Requirements.

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### *Section 14. Transportation Information*

**DOT** NOT REGULATED

**Reportable Quantity:** Non-bulk – Less than 119 gallons

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### *Section 15. Regulatory Information*

**SARA Section 311/312 (40 CFR 370) Hazard Categories:**

<b>Acute Hazard:</b>	Yes	<b>Pressure Hazard:</b>	No		
<b>Chronic Health:</b>	No	<b>Reactive Hazard:</b>	No	<b>Fire Hazard:</b>	No

**SARA 313:** No

**CERCLA Hazardous Substances:**

None

**State Regulations:**

California: This product contains the following chemical(s) known to the State of California to cause cancer, birth defects or reproductive harm:

None

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### *Section 16. Other Information*

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ALL NON-EMERGENCY QUESTIONS SHOULD BE DIRECTED TO CUSTOMER SERVICE (310) 632-7124

NA = Not Applicable

NE= Not Established

ND= Not Determined

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