

*Section 1. Chemical Product and Company Identification*

<b>Flo-Kem, Inc</b>	<b>Name:</b> Citrus Fresh Concentrate	<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> 5769	

*Section 2. Hazards Identification*

**Classification:**      **Physical:** Flammable-3  
                                  **Health:** Irritant  
                                  **Environmental:** ND

**Acute: Eyes:** Causes eye irritation.  
**Skin:** May cause irritation, dryness and defatting on prolonged contact.  
**Ingestion:** May cause gastric distress or disturbances if ingested.  
**Inhalation:** Not likely to cause ill effects. May cause irritation to upper respiratory tract with prolonged exposure.  
**Chronic:** None known.

HEALTH	1
FLAMMABILITY	2
PHYSICAL HAZARD	0

*Section 3. Composition, Information on Ingredients*

Hazardous Component > 1%:	CAS Number:	% By Weight:
d-Limonene	5989-27-5	75-80
Alcohols C9-11 Ethoxylated	68439-46-3	3-8
Methyl-oxirane polymer with oxirane	9003-11-6	5-10

*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 immediately.

**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:** Water may spread burning liquid. Keep away from sparks, heat and open flames.

## Section 6. Accidental Release Measures

**Small Spills:** Mop up. Slippery on floor. Absorb liquid with absorbent material. Collect spilled material in a properly labeled container for later disposal.

**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>	
Alcohols C9-11 Ethoxylated	68439-46-3	NE mg/M <sup>3</sup>	NE mg/M <sup>3</sup>	
Methyl-oxirane polymer with oxirane	9003-11-6	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:** Chemical resistant clothing - Long pants, sleeves, apron, boots.

**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 light yellow liquid, citrus scent.

<b>pH:</b> 10.5	<b>Boiling Point:</b> >212° F	<b>Specific Gravity:</b> 0.874 ± 0.010	<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> ND
<b>Flash Point (TCC):</b> 130° F	<b>% LEL:</b> ND	<b>% UEL:</b> ND	<b>Flammable Limits:</b> ND
			<b>VOCgm/L:</b> 769

## Section 10. Stability and Reactivity

**Stability:** Stable.

**Hazardous Polymerization:** Will not occur.

**Incompatibility (Materials to Avoid):** Strong oxidizers.

**Hazardous Decomposition Byproducts:** Oxides of carbon and nitrogen.

**Conditions to Avoid:** None

## Section 11. Toxicological Information

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

Component:	LD50 Oral:	LC50 Inhalation:	LD50 Dermal:
D-limonene	>5g/kg - rat	>1000 ppm	>5g/kg - rabbit
Alcohols, C9-11, ethoxylated	> 2000 mg/kg - rat	No data available.	3300 mg/kg - rat
Tripropyleneglycol methyl ether	5135 mg/kg - rat	No data available.	20 ml/kg - rabbit
Methyl-oxirane polymer with oxirane	> 2000 mg/kg - rat	No data available.	No data available.

### Other Toxicological Data

D-limonene	Not acutely toxic
Alcohols, C9-11, ethoxylated	Skin irritation. Severe eye irritation.
Tripropyleneglycol methyl ether	Excess exposure may cause anesthetic or narcotic effects.
Methyl-oxirane polymer with oxirane	Skin- no irritation - rabbit.   Eye- no irritation - rabbit.

## Section 12. Ecological Information

### Environmental toxicity:

Component:	Toxicity to fish:	Toxicity to aquatic invertebrates:	Toxicity to aquatic plants and micro-organisms:
D-limonene	No data available.	No data available.	No data available.
Alcohols, C9-11, ethoxylated	LC50 8.5 mg/L 96H flathead minnow	EC50 5.3 mg/l 48H daphnia	No data available.
Tripropyleneglycol methyl ether	LC50 >1000 mg/L 96H rainbow trout	LC50 > 10,000 mg/L 48H daphnia magna	No data available.
Methyl-oxirane polymer with oxirane	LC50 0.1-1.0 mg/L 96H golden orfe	EC50 > 100 48H mg/L invertabrates	LC50 >100 mg/L 72H aquatic plants

### Other Ecological Data

D-limonene	May be toxic to aquatic organisms.
Alcohols, C9-11, ethoxylated	No data available.
Tripropyleneglycol methyl ether	Practically non-toxic to aquatic organisms on an acute basis.
Methyl-oxirane polymer with oxirane	No data available.

### 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:** Not Regulated in 110 gals or less

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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>	Yes

**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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