

**SAFETY DATA SHEET**

**SECTION I IDENTIFICATION**

PRODUCT NAME: **ORANGE CLEANER** Pg. 1/4  
PRODUCT CODE: P/N: SP5604AI Version 2  
CHEMICAL FAMILY: D-LIMONENE SOLUTION 8/8/2013  
Meets GHS requirements

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**SECTION II HAZARD IDENTIFICATION**



**ROUTES OF ENTRY:** Skin, Eyes, Ingestion, Inhalation

**WARNING:**

**HEALTH HAZARDS:** **SKIN** - Irritation or dry skin possible on prolonged contact  
(acute & chronic) **EYE** - May cause severe eye irritation.  
**INHALATION** - High vapor concentrations may cause headaches and dizziness.  
**INGESTION** - Swallowing large amounts may be harmful.

**CARCINOGENICITY:** Not listed by OSHA, IARC, OR NTP

**SECTION III COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL:	% by wt.	CAS #	OSHA PEL	ACGIH TLV
d-Limonene	50 - 60	5989-27-5	100 ppm	100 ppm

**SECTION IV FIRST AID MEASURES**

**SKIN CONTACT:** Immediately flush with cool running water for 15 minutes. Remove contaminated clothing and wash before reuse. If irritation develops or persists, seek medical attention.

**EYE CONTACT:** Immediately flush with cool running water holding eye lids apart. Remove contact lenses if present, and continue flushing for 15 minutes. Get medical attention if irritation persists.

**INGESTION:** Rinse mouth with large amounts of water. Drink water, milk or other fluids to dilute. Do not induce vomiting. Call for medical device if difficulties and discomfort develop.

**INHALATION:** Remove to fresh air. Immediately call for medical advice or assistance if breathing difficulty or irritation is severe or continues

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### SECTION V FIRE FIGHTING MEASURES

**FLASH POINT:** 142° F

**EXTINGUISHING MEDIA:** Alcohol foam, water fog, carbon dioxide, dry chemical

**SPECIAL PROCEDURES:** Use water to cool fire exposed surfaces. Use alcohol foam or dry chemical to extinguish fire or allow to burn under control.

**UNUSUAL HAZARDS:** None

### SECTION VI ACCIDENTAL RELEASE MEASURES

**SPILL OR LEAK PROCEDURES:** **Small Spill** - Absorb liquid on vermiculite, floor absorbent or other absorbent material. **Large Spill** - Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source and prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product and transfer contaminated absorbent, soil and other materials to containers for disposal.

### SECTION VII HANDLING & STORAGE

**WASTE DISPOSAL METHOD:** Reuse or reprocess if possible. Dispose in accordance with all applicable regulations. Subject to disposal regulations: US EPA 40 CFR 262, Hazardous Waste Number D001.

**SPECIAL PRECAUTIONS:** Handle in accordance with good industrial hygiene and safety precautions.

**STORAGE:** Store at room temperature. Seal container after use.

### SECTION VIII EXPOSURE CONTROLS - PERSONAL PROTECTION



**VENTILATION:** General or local to avoid exposure to irritating mists.

**RESPIRATORY PROTECTION:** Use NIOSH/MSHA approved respirator where conditions may cause exposure limits to be exceeded, including mists.

**GLOVES:** Chemical resistant, impermeable, as needed to prevent excessive contact.

**EYE PROTECTION:** Glasses, goggles where conditions may cause eye exposure.

**CLOTHING AND FOOTWEAR:** Full body covering and shoes to prevent excessive contact.

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**SECTION IX PHYSICAL/CHEMICAL CHARACTERISTICS**

<b>BOILING POINT:</b>	349° F	<b>pH:</b>	N/A
<b>FREEZING POINT:</b>	N/A	<b>SPECIFIC GRAVITY:</b>	0.869
<b>VAPOR PRESSURE:</b>	N/A	<b>PERCENT VOLATILE:</b>	> 95
<b>VAPOR DENSITY (AIR = 1):</b>	N/A	<b>APPEARANCE:</b>	Orange Liquid
<b>SOLUBILITY IN WATER:</b>	Insoluble	<b>ODOR:</b>	Orange Fragrance
<b>EVAPORATION RATE: (BUTYL ACETATE = 1)</b>	N/A		

**SECTION X STABILITY AND REACTIVITY DATA**

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**INCOMPATIBILITY:  
(CONDITIONS TO AVOID)** Strong oxidizers

**HAZARDOUS DECOMPOSITION:** Carbon monoxide, carbon dioxide, various hydrocarbons

**SECTION XI TOXICOLOGICAL INFORMATION**

**d-Limonene:** Citrus terpenes have a low oral toxicity (LD50 > 5g/kg) and a low dermal toxicity (LD50 > 5g/kg) in rabbits and a low toxicity in inhalation (RD50 > 1g/kg) in mice.

**SECTION XII ECOLOGICAL INFORMATION**

This product has not been tested as a whole

**SECTION XIII DISPOSAL CONSIDERATIONS**

**WASTE DESCRIPTION:** Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

**GENERAL DISPOSAL CONSIDERATIONS:** Clean up and dispose of waste in accordance with all federal, state, and local environmental regulations.

**SECTION XIV TRANSPORT INFORMATION**

**PROPER SHIPPING NAME:** Combustible Liquid, N.O.S. (D-Limonene)

**UN/NA NUMBER:** NA1993

**HAZARD CLASS:** 3

**PACKING GROUP:** III

**REPORTABLE QUANTITY:**

**EMERGENCY RESPONSE GUIDEBOOK:** 128

**PLACARD/LABELS REQUIRED:** Combustible Liquid

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**SECTION XV REGULATORY INFORMATION**

**OSHA HAZARDOUS CHEMICAL:** Yes  
**SARA 302 COMPONENTS:** None  
**SARA 311/312:** Immediate ( ) Delayed ( ) Fire (X) Reactive ( )  
Sudden release of Pressure ( )  
**SARA 313 COMPONENTS:** Limonene CAS# 5989-27-5

**SECTION XVI OTHER INFORMATION**

**HMIS:** Health = 2; Flammability = 2; Reactivity = 0

**DISCLAIMER**

The information herein has been from sources believed to be accurate, reliable and up to date to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources and do not make any warranties nor assume any liability from its use or misuse.

**End of SDS**