



# Spartan Chemical Company, Inc.

## Material Safety Data Sheet

### SECTION I: PRODUCT INFORMATION

Product Name or Number (as it appears on label):

**ORANGE TOUGH 90**

Product Number: 2290

Product Division:

**Janitorial**

**Spartan Chemical Company, Inc.**  
**1110 Spartan Drive**  
**Maumee OH 43537**

Product/Technical Information: **1-(800)-537-8990**

Medical Emergency: **1-(888)-314-6171 (24 hours)**

Chemical Leak/Spill Emergency: **CHEMTREC 1-(800) 424-9300 (24 hours)**

Shipping Description: Cleaning compounds, liquid, n.o.s.

NFPA Ratings:	HMIS Ratings:
<b>Health:</b> 1 - Slight <b>Fire:</b> 2 - Moderate <b>Reactivity:</b> 0 - Minimal	<b>Health:</b> 1 - Slight <b>Fire:</b> 2 - Moderate <b>Reactivity:</b> 0 - Minimal <b>Pers. Prot. Equip.:</b> B - Safety Glasses; gloves

### SECTION II: HAZARDOUS INGREDIENTS

(Listed when present at 1% or greater, carcinogens at 0.1% or greater) All component chemicals are listed or exempted from listing on the "TSCA Inventory" of chemical substances maintained by the U.S. Environmental Protection Agency.

Chemical Name(s)	%Wt	CAS Registry No.	Table Z-1-A			Carcinogen
			TWA mg/m <sup>3</sup>	STEL mg/m <sup>3</sup>	CEILING mg/m <sup>3</sup>	
d-limonene	85-90	5989-27-5	Not Established	Not Established	Not Established	No

Comment:

### SECTION III: PHYSICAL DATA

Boiling Point: 310 °F	Vapor Pressure: 2 mm Hg @ 75°F
Vapor Density (AIR = 1): 0.012	Solubility in Water: Emulsifiable
pH: N/A	Specific Gravity (H <sub>2</sub> O=1): 0.86
Evaporation Rate (but.ace.=1): <1	Percent Solid by Weight: 10-15
Physical State: Liquid	
Appearance & Odor: Clear, orange liquid. Orange citrus fragrance.	

### SECTION IV: FIRE & EXPLOSIVE HAZARD DATA

Flash Point: Tag Closed Cup 124°F	Method Used: ASTM-D56
Flammable Limits: Unknown	Flame Extension: N/A
Extinguishing Media: CO <sub>2</sub> , foam, dry chemical	
Special Fire Fighting Procedures: Self-contained breathing apparatus recommended.	
Unusual Fire & Explosive Hazards: Combustible liquid. Keep away from heat, sparks, or flame.	

**SECTION V: HEALTH HAZARD DATA**

Threshold Limit Value: Not Established	Primary Routes of Entry: Skin Contact
Effects of Overexposure- May cause eye and skin irritation. Harmful if swallowed. High concentrations of vapors may be irritating Conditions to Avoid: to throat and respiratory system.	
Conditions Aggravated by Use: Unknown	
<b>Emergency &amp; First Aid Procedures:</b>	
Eyes: In case of eye contact; flush eyes with water for at least 15 minutes; remove contact lenses. If irritation persists. Remove contact lenses. Call a physician. Consult a physician.	
Skin: In case of skin contact; wash with soap and water.	
Ingestion: If swallowed; drink water to dilute. Do not induce vomiting. Contact physician immediately. Never give anything by mouth to an unconscious person.	

**SECTION VI: REACTIVITY DATA**

Stability: Stable	Incompatible Materials: Strong oxidants agents and acids.
Hazardous Decomposition Products: Burning may produce CO, CO <sub>2</sub> and smoke.	Hazardous Polymerization: Will Not Occur

**SECTION VII: SPILL OR LEAK PROCEDURES**

Steps to be Taken in Case Material is Released or Spilled: Large quantities should be contained and absorbed.
Waste Disposal Method: Incinerate or dispose of in accordance with local, state and Federal regulations.

**SECTION VIII: SPECIAL PROTECTION INFORMATION**

Respiratory Protection: Use organic vapor canister or supplied air respirator in confined or enclosed areas without adequate ventilation.
Ventilation: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.
Protective Gloves(Specify Type): Chemical resistant gloves
Eye Protection(Specify Type): Chemical splash goggles or face shield
Other Protective Equipment: Use chemical resistant apron to avoid contaminating regular clothing which could result in prolonged skin contact.

**SECTION IX: SPECIAL PRECAUTIONS**

Precautions; Handling & Storing: Combustible liquid. Keep away from heat, sparks, or open flame. Do not handle or store near strong oxidants. If store for periods of time above 125°F, pressure may build causing drum to expand and possibly rupture. If drum is bulging, vent carefully through bung; open carefully.
Other Precautions: None

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**ORANGE TOUGH 90**

Effective Date: 09/28/99

Supersedes: 02/10/98

Ref: 29 CFR 1910.1200 (OSHA)

Changes: Address and Format

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