



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

Spartan Chemical Company, Inc.

1110 Spartan Drive

Maumee OH 43537

Product Division:

Janitorial

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

Information:

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

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

Emergency: hours)

Shipping Description:		Cleaning compounds, liquid, n.o.s.	
NFPA Ratings:		HMIS Ratings:	
Health:	1- Slight	Health:	1- Slight
Fire:	2 - Moderate	Fire:	2 - Moderate
Reactivity:	0 - Minimal	Reactivity:	0 - Minimal
		Pers. Prot. Equip.:	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)	% W	CAS Registry No.	Table Z- 1 - A			Carcinogen
			TWA mg/m ³	STEL mg/m ³	CEILING mg/m ³	
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 ₂ 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 ₂ , 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-Conditions to Avoid:	May cause eye and skin irritation. Harmful if swallowed. High concentrations of vapors may be irritating to throat and respiratory system.		
Conditions Aggravated by Use:	Unknown		

Emergency & First Aid Procedures:

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 ₂ 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

© SCC 09/28/99 Name: Ronald T. Cook Title: Manager, Regulatory Affairs
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 (OSHA)

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