



Spartan Chemical Company, Inc.

Material Safety Data Sheet

SECTION I: PRODUCT INFORMATION

Product Name or Number (as it appears on label):
ORANGE TOUGH 40
 Product Number: 2240

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:
Health: 1- Slight Fire: 2 - Moderate Reactivity: 0 - Minimal	Health: 1- Slight Fire: 2 - Moderate 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)	%Wt	CAS Registry No.	Table Z-1-A			Carcinogen
			TWA mg/m ³	STEL mg/m ³	CEILING mg/m ³	
d-limonene	35-40	5989-27-5	Not Established	Not Established	Not Established	No
Nonyl phenol ethoxylate	10-15	127087-87-0	Not Established	Not Established	Not Established	No
Triethanolamine	05-10	27323-41-7	Not Established	Not Established	Not Established	No
dodecylbenzenesulfonate	-	-	-	-	-	-
Triethanolamine	05-10	102-71-6	5 (ACGIH)	Not Established	Not Established	No
Hexylene glycol	01-05	107-41-5	Not Established	Not Established	121 (NIOSH)	No
Dicarboxylic fatty acid, dipotassium salt	01-05	66375-37-9	Not Established	Not Established	Not Established	No
Tetrasodium ethylene diaminetetraacetate	01-05	64-02-8	Not Established	Not Established	Not Established	No
	-	-	-	-	-	-

SECTION III: PHYSICAL DATA

Boiling Point: >212 °F	Vapor Pressure: Unknown
Vapor Density (AIR = 1): Unknown	Solubility in Water: Emulsifiable
pH: 9.0	Specific Gravity (H ₂ O=1): 0.96
Evaporation Rate (but.ace.=1): <1	Percent Solid by Weight: 20-25
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: Foam, dry chemical, carbon dioxide, water fog or spray

Special Fire Fighting Procedures: Use self-contained breathing apparatus in enclosed areas. Cool exposed containers with water spray.

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 to throat and respiratory system.	
Conditions to Avoid: 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
Hazardous Decomposition Products: CO, CO ₂	Hazardous Polymerization: Will Not Occur

SECTION VII: SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled: Absorb or recover free liquid.
Waste Disposal Method: 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
Other Protective Equipment: None

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 03/08/2000	Name: Ronald T. Cook	Title: Manager, Regulatory Affairs
ORANGE TOUGH 40	Effective Date: 03/08/2000	Supercedes: 09/28/99
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