



Spartan Chemical Company, Inc.

Material Safety Data Sheet

SECTION I: PRODUCT INFORMATION

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

ORANGE TOUGH 15

Product Number: 2215; 2216

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 Triethanolamine	10-15 01-05	5989-27-5 102-71-6	Not Established 5 (ACGIH)	Not Established Not Established	Not Established Not Established	No No

SECTION III: PHYSICAL DATA

Boiling Point: 212 °F	Vapor Pressure: Unknown
Vapor Density (AIR = 1): Unknown	Solubility in Water: Complete microemulsion
pH: 8.5-8.9	Specific Gravity (H ₂ O=1): 0.99
Evaporation Rate (but.ace.=1): <1	Percent Solid by Weight: 15-20
Physical State: Liquid	
Appearance & Odor: Clear, orange liquid. Orange citrus fragrance	

SECTION IV: FIRE & EXPLOSIVE HAZARD DATA

Flash Point: (Tag Closed Cup) 126°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: None	
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 skin or eye irritation. Do not ingest. Conditions to Avoid:	
Conditions Aggravated by Use: Unknown	
Emergency & First Aid Procedures:	
Eyes: In case of contact; flush eyes with water for at least 15 minutes; remove contact lenses. If irritation persists; call a physician.	
Skin: In case in 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 oxidizing agents
Hazardous Decomposition Products: None known	Hazardous Polymerization: Will Not Occur

SECTION VII: SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled: Large amounts should be absorbed or recovered. Small amounts can be flushed to sanitary sewer system.
Waste Disposal Method: Same as above

SECTION VIII: SPECIAL PROTECTION INFORMATION

Respiratory Protection: None normally required
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 flame.
Other Precautions: None

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ORANGE TOUGH 15

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Changes: Address and Format

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