## SPARTAN CHEMICAL CO.. INC. MATERIAL SAFETY DATA SHEET

#### SECTION I: PRODUCT INFORMATION

# PRODUCT NAME OR NUMBER (as it appears on label) **ORANGE TOUGH 15**

MANUFACTURER'S NAME

Spartan Chemical Co., Inc.

EMERGENCY TELEPHONE NO.

419/531-5551

ADDRESS (NUMBER, STREET, CITY, STATE AND ZIP CODE)

110 N. Westwood Ave., Toledo, OH 43607

MANUFACTURER'S D-U-N-S NO.

00-503-6728

NFPA RATINGS:	HMIS RATINGS:			
HEALTH-1 FIRE-2 REACT-0	HEALTH-1 FIRE-2 REACT-0 PERS. PROTB			

SECTION II: HAZARDOUS INGREDIENTS							
CAS			TABLE Z-1-A				
REGISTRY	%W	CHEMICAL NAME(S)	TWA	STEL	CEILING	CARCINOGEN	
NO.		·	mg/M <sup>6</sup>	mg/M <sup>8</sup>	mg/M <sup>3</sup>		

5989-27-5

10-15 d-limonene

<1

No

# SECTION III: PHYSICAL DATA

**BOILING POINT** 

212°F

PERCENT SOLID BY WEIGHT

15-20%

**VAPOR PRESSURE** 

Unknown

EVAPORATION RATE (but. ace. = 1)

**VAPOR DENSITY (AIR = 1)** 

Unknown

**SOLUBILITY IN WATER** 

Complete microemulsion

pН 8.2 APPEARANCE AND ODOR

SPECIFIC GRAVITY (H2O = 1)

Clear, orangeish liquid Orange citrus fragrance

IS MATERIAL: (LIQUID) SOLID PASTE POWDER GAS

SECTION IV: FIRE & EXPLOSION HAZARD DATA

**FLASH POINT** 

126°F Tag Closed Cup

METHOD USED - ASTM - D92

FLAMMABLE LIMITS - Unknown

EXTINGUISHING MEDIA - Foam, dry chemical, CO<sub>2</sub>, water fog or spray

SPECIAL FIRE FIGHTING PROCEDURES - None

UNUSUAL FIRE AND EXPLOSION HAZARDS - Combustible liquid. Keep away from heat, sparks or flame.

SECTION V: HEALTH HAZARD DATA
EFFECTS OF OVEREXPOSURE - CONDITIONS TO AVOID  May cause skin or eye irritation. Do not ingest.  THRESHOLD LIMIT VALUE - Not established
PRIMARY ROUTES OF ENTRY INHALATION SKIN CONTACT X OTHER (SPECIFY)
CONDITIONS AGGRAVATED BY USE - Unknown
<b>EMERGENCY AND FIRST AID PROCEDURES</b> – <u>EYES:</u> In case of eye contact, flush eyes with water for at least 15 minutes; remove contact lenses. If irritation persists, consult a physician. <u>SKIN:</u> In case of skin contact, wash with soap and water. <u>INGESTION:</u> If swallowed, drink water to dilute. Do <u>not</u> induce vomiting. Contact physician immediately. Never give anything by mouth to an unconscious person.
SECTION VI: REACTIVITY DATA
STABILITY: UNSTABLE STABLE _X
INCOMPATIBILITY (MATERIALS TO AVOID) Strong oxidizing agents HAZARDOUS DECOMPOSITION PRODUCTS None known
HAZARDOUS MAY OCCUR POLYMERIZATION: WILL NOT OCCUR X
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 (SPECIFY TYPE) None normally required.
<b>VENTILATION</b> – 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  OTHER PROTECTIVE EQUIPMENT – None  EYE PROTECTION (SPECIFY TYPE)  Chemical splash goggles

SECTION IX: SPECIAL PRECAUTIONS

## PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Combustible liquid. Keep away from heat, sparks or flame.

OTHER PRECAUTIONS

None

Spartan Chemical Co., Inc. **ORANGE TOUGH 15** 

Ref: 29 CFR 1910:1200 (OSHA)

NAME Thomas J. Mitchell Director of Research DATE November 23, 1992

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