

**SPARTAN CHEMICAL COMPANY, INC.
WHMIS MATERIAL SAFETY DATA SHEET**

SECTION I: PRODUCT INFORMATION

**PRODUCT IDENTIFIER
GRUB SCRUB**

PRODUCT USE: Heavy duty hand cleaner

MANUFACTURER'S NAME & ADDRESS
Spartan Chemical Company, Inc.
1110 Spartan Drive, Maumee, OH 43537 USA

MEDICAL EMERGENCY TELEPHONE
888/314-6171 (24 Hours)
PRODUCT INFORMATION
800/537-8990

SECTION II: HAZARDOUS INGREDIENTS

CAS REGISTRY NO.	% W	CHEMICAL NAME(S)	TLV			LD50	LC50
			TWA mg/m ³	STEL mg/m ³	Ceiling mg/m ³		
64742-47-8	5-10	C13-14 isoparaffin	----	Not Established	----	Not available	Not available
1332-09-8	1-5	Pumice	----	Not Established	----	Not available	Not available
8042-47-5	1-5	Mineral oil	----	Not Established	----	Not available	Not available
68991-48-0	1-5	C9-11 Pareth-6	----	Not Established	----	Not available	Not available
34398-01-1	1-5	Undeceth-3	----	Not Established	----	Not available	Not available
5989-27-5	1-5	Limonene	----	Not Established	----	Not available	Not available

SECTION III: PHYSICAL DATA

BOILING POINT 93 °C (200°F)	SPECIFIC GRAVITY (H₂O = 1) 0.980	PERCENT SOLID BY WEIGHT 20-25%
VAPOUR PRESSURE Not established	EVAPORATION RATE (butyl acetate = 1) < 1	FREEZING POINT Not available
VAPOUR DENSITY (AIR = 1) Not established	SOLUBILITY IN WATER Complete	ODOUR THRESHOLD Not available
pH 6.0-7.5	APPEARANCE AND ODOUR White viscous liquid, orange fragrance	PHYSICAL STATE Gas__ Liquid <u>X</u> Solid__
COEFFICIENT OF WATER/OIL DISTRIBUTION Not available		

SECTION IV: FIRE & EXPLOSION DATA

FLASH POINT >100°C (212°F)	METHOD USED ASTM - D56	FLAMMABLE LIMITS Not established
EXTINGUISHING MEDIA Water, CO2 or dry chemical	CONDITIONS OF FLAMMABILITY Not applicable	AUTO-IGNITION TEMPERATURE Not applicable
HAZARDOUS COMBUSTION PRODUCTS Not established		EXPLOSION DATA Not applicable
SPECIAL FIRE FIGHTING PROCEDURES Use self-contained breathing apparatus for maximum respiratory protection. Water may be used to cool containers if not ruptured or leaking.		
UNUSUAL FIRE AND EXPLOSION HAZARDS Combustion products are toxic.		

SECTION V: REACTIVITY DATA

STABILITY: STABLE X **CONDITIONS OF INSTABILITY** **CONDITIONS OF REACTIVITY**
Not established Not established

INCOMPATIBILITY (MATERIALS TO AVOID) Strong acids and oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS Carbon dioxide, carbon monoxide

SECTION VI: TOXICOLOGICAL PROPERTIES

PRIMARY ROUTES OF ENTRY: Eye Contact and Ingestion

EXPOSURE LIMIT

Not established for mixture.

EFFECTS OF ACUTE EXPOSURE:

EYE CONTACT: May cause eye irritation with symptoms such as pain, redness and swelling.

INGESTION: May be harmful if swallowed. Symptoms may include nausea, vomiting, pain and diarrhea.

EFFECTS OF CHRONIC EXPOSURE

None known.

IRRITANCY OF PRODUCT

May cause eye irritation.

SENSITIZATION TO PRODUCT

Contains d-limonene which may cause skin sensitization with repeated contact.

CARCINOGENICITY

No

REPRODUCTIVE TOXICITY

Not available

TERATOGENICITY

Not available

MUTAGENICITY

Not available

SYNERGISTIC PRODUCTS

Not available

SECTION VII: PREVENTIVE MEASURE

PERSONAL PROTECTIVE EQUIPMENT / ENGINEERING CONTROLS:

Use of gloves and eye protection not required.

LEAK AND SPILL PROCEDURE: Small spills of one gallon or less may be flushed with plenty of water to sanitary sewer system (If permitted by local sewer regulations). Dike and contain large spills with inert material and transfer liquid to containers for recovery or disposal. Keep spill out of storm sewers and waterways.

WASTE DISPOSAL METHOD: Dispose of in compliance with all laws and regulations.

HANDLING PROCEDURES: Avoid contact with eyes. Do not swallow. Discontinue use if signs of irritation or rash appear. Product is designed for use on hands but should be rinsed off with water after use. Keep away from heat, sparks or flame.

STORAGE REQUIREMENTS: Do not mix with other chemicals. Keep from freezing.

SPECIAL SHIPPING INFORMATION: Not regulated. Shipping Description: Non-Hazardous Products

SECTION VIII: FIRST AID MEASURES

EYES: Flush eyes with water for at least 15 minutes. Remove contact lenses. Get medical attention.

SKIN: Rinse hands thoroughly with water after use.

INGESTION: Do not induce vomiting. Drink one or two glasses of water to dilute product. Get medical attention. Do not give anything by mouth to an unconscious person.

SECTION IX: PREPARATION INFORMATION

GRUB SCRUB

DATE OF PREPARATION: October 4, 2012

SUPERCEDES January 1, 2009

PREPARED BY: Ronald T. Cook / Manager, Regulatory Affairs / Spartan Chemical Company, Inc.

TELEPHONE NUMBER: 800/537-8990