

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

SECTION I: PRODUCT INFORMATION

PRODUCT IDENTIFIER

CLOTHESLINE FRESH LIQUID LAUNDRY STARCH [22]

PRODUCT USE: Laundry starch

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		
9005-25-8	20-25	Starch	----	Not Established	----	Not available	Not available
Proprietary	5-10	Polymers	----	Not Established	----	Not available	Not available

SECTION III: PHYSICAL DATA

BOILING POINT

99 °C (210°F)

VAPOUR PRESSURE

Not established

VAPOUR DENSITY (AIR = 1)

Not established

pH

4.5-5.0

COEFFICIENT OF WATER/OIL DISTRIBUTION

Not available

SPECIFIC GRAVITY (H₂O = 1)

1.065

EVAPORATION RATE (butyl acetate = 1)

< 1

SOLUBILITY IN WATER

Complete

APPEARANCE AND ODOUR

Thick white liquid, pleasant odor

PERCENT SOLID BY WEIGHT

30-35%

FREEZING POINT

Not available

ODOUR THRESHOLD

Not available

PHYSICAL STATE

GAS__ LIQUID X SOLID_____

SECTION IV: FIRE & EXPLOSION DATA

FLASH POINT

> 100 °C (212°F)

EXTINGUISHING MEDIA

Product does not support combustion. Not applicable

HAZARDOUS COMBUSTION PRODUCTS

Not established

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

Dried product solids will support combustion.

METHOD USED

ASTM - D56

CONDITIONS OF FLAMMABILITY

FLAMMABLE LIMITS

Not established

AUTO-IGNITION TEMPERATURE

Not applicable

EXPLOSION DATA

Not applicable

SECTION V: REACTIVITY DATA

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

INCOMPATIBILITY (MATERIALS TO AVOID)
Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS Not established

SECTION VI: TOXICOLOGICAL PROPERTIES

PRIMARY ROUTES OF ENTRY: Eye Contact, Skin Contact, Ingestion, Inhalation

EXPOSURE LIMIT

Not established for mixture.

EFFECTS OF ACUTE EXPOSURE:

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

SKIN CONTACT: May cause mild skin irritation with symptoms such as pain and redness.

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

INHALATION: Not irritating with expected use.

EFFECTS OF CHRONIC EXPOSURE Not established

IRRITANCY OF PRODUCT

May cause mild skin and eye irritation

SENSITIZATION TO PRODUCT

Not available

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

Gloves not required with expected use. Eye protection not required with expected use. Respiratory protection is not required with expected use. Provide good general ventilation. Local exhaust ventilation may be necessary for some operations.

LEAK AND SPILL PROCEDURE May be flushed into sanitary sewer. Do not release to storm sewer or waterways.

WASTE DISPOSAL METHOD Assure conformance with applicable regulations.

HANDLING PROCEDURES Avoid contact with eyes and skin. Do not taste or swallow.

STORAGE REQUIREMENTS Keep container closed when not in use. Do not freeze. Do not store above 49°C (120°F). Wash thoroughly after handling. Keep out of reach of children.

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

SECTION VIII: FIRST AID MEASURES

EYES: In case of contact, flush eyes with water for at least 15 minutes. Remove contact lenses. Get medical attention if irritation persists.

SKIN: Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists. Wash clothing before reuse.

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.

INHALATION: In case of respiratory irritation or dizziness, move person to fresh air. Get medical attention if irritation persists.

SECTION IX: PREPARATION INFORMATION

CLOTHESLINE FRESH LIQUID LAUNDRY STRARCH [22]

DATE OF PREPARATION: March 20, 2014

SUPERCEDES: September 16, 2011

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

TELEPHONE NUMBER 800/537-8990