

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

SECTION I: PRODUCT INFORMATION

PRODUCT IDENTIFIER

CLOTHESLINE FRESH ENZYME LAUNDRY DETERGENT [11]

PRODUCT USE: Liquid laundry detergent with enzymes

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 | | |
| 68439-46-3 | 10-15 | Alcohol ethoxylate | ---- | Not Established | ----- | Not available | Not available |
| Proprietary | 1-5 | Acrylic copolymer | ---- | Not Established | ----- | Not available | Not available |
| 66455-14-9 | 1-5 | Alcohol ethoxylate | ---- | Not Established | ----- | Not available | Not available |
| 68515-73-1 | 1-5 | Alkyl polyglycoside | ---- | Not Established | ----- | Not available | Not available |
| 1643-20-5 | 1-5 | Lauramine oxide | ---- | Not Established | ----- | Not available | Not available |
| 9014-01-1 | < 1.0 | Protease | ---- | ---- | 0.00006 ACGIH | Not available | Not available |
| 9000-90-2 | < 1.0 | Alpha-amylase | ---- | Not Established | ----- | Not available | Not available |

SECTION III: PHYSICAL DATA

BOILING POINT

100 °C (212°F)

VAPOUR PRESSURE

Not established

VAPOUR DENSITY (AIR = 1)

Not established

pH

7.5-8.5

COEFFICIENT OF WATER/OIL DISTRIBUTION

Not available

SPECIFIC GRAVITY (H₂O = 1)

1.013

EVAPORATION RATE (butyl acetate = 1)

< 1

SOLUBILITY IN WATER

Complete

APPEARANCE AND ODOUR

Blue/Green liquid, pleasant fragrance

PERCENT SOLID BY WEIGHT

20-25%

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

Water, CO₂ or dry chemical

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.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Product does not support combustion. Use extinguishing media appropriate for surrounding fire.

METHOD USED

ASTM - D56

CONDITIONS OF FLAMMABILITY

Not applicable

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, strong acids
HAZARDOUS DECOMPOSITION PRODUCTS Carbon dioxide, carbon monoxide

SECTION VI: TOXICOLOGICAL PROPERTIES

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

EXPOSURE LIMIT

Not established for mixture.

EFFECTS OF ACUTE EXPOSURE:

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

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

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

Contains enzymes which may cause allergic respiratory reactions with symptoms of shortness of breath, wheezing and coughing.

EFFECTS OF CHRONIC EXPOSURE

None known.

IRRITANCY OF PRODUCT

May cause eye irritation.

May cause skin irritation.

SENSITIZATION TO PRODUCT

Possible. See above

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:

None required with expected use. Provide good general ventilation. Local exhaust ventilation may be necessary for some operations.

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, skin or clothing that is being worn. Do not swallow. Wash thoroughly with soap and water after handling.

STORAGE REQUIREMENTS: Do not freeze. Keep out of reach of children.

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

Wash contaminated 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 ENZYME LAUNDRY DETERGENT [11]

DATE OF PREPARATION: December 2, 2014

SUPERCEDES December 2, 2011

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

TELEPHONE NUMBER: 800/537-8990